

TITLE: Detergent composition containing polyhydroxy fatty acid amide and alkyl ester sulfonate surfactants
 INVENTOR(S): Murch, Bruce P., Cincinnati, OH, United States
 Mao, Mark H. K., Cincinnati, OH, United States
 PATENT ASSIGNEE(S): The Procter & Gamble Company, Cincinnati, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5454982		19951003
APPLICATION INFO.:	US 1994-355433		19941213 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-79684, filed on 17 Jun 1993, now abandoned which is a continuation of Ser. No. US 1991-755896, filed on 6 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-589740, filed on 28 Sep 1990, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Albrecht, Dennis		
LEGAL REPRESENTATIVE:	Yetter, Jerry J.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2671		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a detergent composition comprising at least about 1% by weight, preferably at least about 3%, of a polyhydroxy fatty acid amide surfactant of the formula: ##STR1## wherein R.sup.1 is H, C.sub.1 -C.sub.4 hydrocarbyl, 2-hydroxy ethyl, or 2-hydroxy propyl, R.sup.2 is C.sub.7 -C.sub.31 hydrocarbyl, and Z is polyhydroxyhydrocarbyl having a linear hydrocarbyl chain with at least 3 hydroxyls directly connected to the chain, or alkoxyated derivatives thereof; and at least about 1%, by weight, preferably at least about 3%, of an alkyl ester sulfonate surfactant of the formula: ##STR2## wherein R.sup.3 is C.sub.8 -C.sub.20 hydrocarbyl, R.sup.4 is C.sub.1 -C.sub.6 hydrocarbyl, and M is a soluble salt-forming cation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM G.B. Patent 745,036, published Feb. 15, 1956, assigned to Atlas Powder Company, relates to heterocyclic amides and carboxylic esters thereof that are said to be useful as chemical intermediates, emulsifiers, wetting. . . an anhydriized hexane pentol or a carboxylic acid ester thereof, R.sub.1 is a monovalent hydrocarbon radical, and --C(O)R.sub.2 is the acyl radical of a carboxylic acid having from 2 to 25 carbon atoms.

SUMM . . . typically comprise from about 5% to about 50%, more typically about 5% to about 30%, by weight, of detergent builder. Granular formulations typically comprise from about 10% to about 80%, more typically from about 15% to about 50% by weight, of. . .

SUMM . . . other silicates may also be useful such as for example magnesium silicate, which can serve as a crispening agent in granular formulations, as a stabilizing agent for oxygen bleaches, and as a component of suds control systems.

SUMM . . . builders are especially useful in the present invention. Aluminosilicate builders are of great importance in most currently marketed heavy duty granular detergent compositions, and can also be a significant builder ingredient in liquid detergent formulations. Aluminosilicate builders include those having the. . .

SUMM . . . are the alkali metal tripolyphosphates, sodium, potassium and ammonium pyrophosphate, sodium and potassium and ammonium pyrophosphate, sodium and potassium orthophosphate, sodium polymeta phosphate in which the degree of polymerization ranges from about 6 to about 21, and salts of phytic acid.

SUMM . . . sodium salt), are polycarboxylate builders of particular importance for heavy duty liquid detergent formulations, but can also be used in granular compositions.

SUMM Peroxidase enzymes are used in combination with oxygen sources, e.g., percarbonate, perborate, persulfate, hydrogen peroxide, etc.

They are used for "solution bleaching," i.e. to prevent transfer of dyes or pigments removed from. . .

SUMM A wide range of enzyme materials and means for their incorporation into synthetic detergent granules is also disclosed in U.S. Pat.

No. 3,553,139, issued Jan. 5, 1971 to McCarty et al. (incorporated herein by reference) . . .

SUMM For granular detergents, the enzymes are preferably coated or prilled with additives inert toward the enzymes to minimize dust formation and improve. . .

SUMM . . . about 1% to about 10%, of the detergent composition. In general, bleaching compounds are optional components in non-liquid formulations, e.g., granular detergents. If present, the amount of bleach activators will typically be from about 0.1% to about 60%, more typically from. . .

SUMM The compositions of the present invention can also optionally contain water-soluble ethoxylated amines having clay soil removal and anti-redeposition properties. Granular detergent compositions which contain these compounds typically contain from about 0.01% to about 10.0% by weight of the water-soluble ethoxylated. . .

SUMM . . . to 24 carbon atoms, propylene oxide, and monostearyl phosphates such as monostearyl alcohol phosphate ester and monostearyl di-alkali metal (e.g., Na, K, Li) phosphates and phosphate esters. The hydrocarbons such as paraffin and haloparaffin can be utilized in liquid form. The liquid hydrocarbons will. . .

SUMM . . . and silanated silica are described, for instance, in German Patent Application DOS 2,124,526. Silicone defoamers and suds controlling agents in granular detergent compositions are disclosed in U.S. Pat. No. 3,933,672, Bartolotta et al., and in U.S. Pat. No. 4,652,392, Baginski et. . .

SUMM . . . between about 7.5 and about 9.0. Techniques for controlling pH are known in the art and include the use of buffers, acids, alkalis, etc.

SUMM . . . under a nitrogen sweep to form a melt (approximately 25 minutes). When the melt temperature reaches 145.degree. C., catalyst (anhydrous powdered sodium carbonate, 10.5 g., 0.1 mole, J. T. Baker) is added. The nitrogen sweep is shut off and the aspirator. . .

DETD These examples show granular detergent compositions of the present invention containing alkyl ester sulfonate and polyhydroxy fatty acid amide surfactants.

DETD

Base Granule	1	2	3	4
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C.sub.16-18 Methyl Ester Sulfonate	11.1	14.8	11.1	18.5
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C.sub.14-15 Alkyl Sulfate			5.6	
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Coconut (C.sub.12-18) Alkyl Sulfate				
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N-Methyl N-1-Deoxyglucityl				3.7
----------------------------	--	--	--	-----

Oleamide				
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N-Methyl N-1-Deoxyglucityl				
----------------------------	--	--	--	--

DETD . . . than about 50 C. These compositions can be made by spray drying a slurry of the ingredients of the base granule to a moisture of about 5-8%, admixing the granular enzyme and spraying on the liquid nonionic surfactant and perfume. Optionally, a portion or all of the surfactants in the base granule can be admixed as ground particles in the size range from 0.1 to 1 mm in diameter.

DETD

Base Granule	5	6
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C.sub.16-18 Fatty Acid	2.2	2.2
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TMS/TDS (80:20)	7.0	7.0
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Polyacrylate (4500 MW)	3.3	3.3
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Polyethylene Glycol (8000 MW)		
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	1.3	1.3
--	-----	-----

Sodium Carbonate	10.7		/Na.sub.2 O = 2)
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	11.0	11.0
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Sodium Diethylenetriamine Pentaacetate		
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	0.7	0.7
Brightener	0.5	0.5
Admix		
Zeolite	5.0	5.0
Suds Suppressor flake*	0.3	0.3
Sodium Percarbonate	12.0	12.0
N nanoyloxybenzenesulfonate		
	5.0	5.0
N-Methyl N-1-Deoxyglucityl Cocoamide		
	6.4	6.4
C.sub.16-18 Methyl Ester Sulfonate		
	19.1	19.1
Spray on		
C.sub.12-13 Alkyl Ethoxylate (6.5 mole)		
	2.0	2.0
Perfume	0.5	0.5
Water.		

DETD The compositions of Example 5 and 6 represent condensed **granular** formulations prepared by slurring and spray drying the base **granule** ingredients to a moisture of about 5%, and mixing in the additional dry ingredients in a compacting mixer. The resulting high density **powder** is dedusted by spraying on the liquid ingredients. The product is intended for use at about 1000 ppm concentration, at.

DETD

Base Granule	7	8	9
C.sub.16-18 Alkyl Sulfate			
	2.4	2.4	2.4
C.sub.16-18 Alkyl Ethoxylate (11 mole)			
	1.1	1.1	1.1
Zeolite	21.3	23.6	21.3
Acrylate/maleate copolymer			
	4.3	4.0	
Fatty Amide			
C.sub.16-18 Methyl Ester Sulfonate			
	4.6	7.6	7.6
Sodium Citrate	8.0		8.0
Sodium Carbonate	17.5	17.3	17.5
Sodium Silicate (1.6r)			
	3.5	3.0	3.5
Sodium Perborate.H2O	12.5	16.0	12.5
Carboxymethyl Cellulose			
	0.5	0.8	0.5
Tetraacetylenediamine			
	5.0	5.8	5.0
Protease (2.1% active enzyme)			
	1.4	1.6	1.4
Spray-on			
Perfume	0.4	0.4	0.4
Silicone Fluid.			

DETD . . . basis, at temperature of from about 30.degree. C. to 95.degree. C. These compositions can be made by slurring the base **granule** ingredients and spray dried to about 9% moisture content. The blown **powder** is passed through a Loedige mixer to densify the mixture. Remaining dry ingredients are added and mixed in a rotary.

DETD . . . from the reaction product prior to use in the finished detergent formulation. Likewise, the formulator of, for example, solid, typically **granular**, detergent compositions may find it convenient to run the process at 30.degree. C.-90.degree. C. in solvents which comprise ethoxylated alcohols.

DETD . . . is filtered out. The product, after removal of water and MMA by evaporation, is about 95% N-methyl glucamine, a white **powder**.

DETD . . . for about 30 minutes and the product, after removal of water and evaporation, is about 95% N-methyl glucamine, a white **powder**

DETD . . . Ether is removed on a rotary evaporator and the product is

stored in an oven overnight, and ground to a powder. Any remaining N-methyl maltamine is removed from the product using silica gel. A silica gel slurry in 100% methanol is. . .

DETD . . . example, the reaction product of dimethyl terephthalate, ethylene glycol, 5-sodiosulfoisophthalate and 3-sodiosulfobenzoic acid. Such agents are preferred for use in granular laundry detergents.

DETD The formulator may also determine that it is advantageous to include a non-perborate bleach, especially in heavy-duty granular laundry detergents. A variety of peroxygen bleaches are available, commercially, and can be used herein, but, of these, percarbonate is. . .

DETD . . . to this invention. It will be appreciated that the stability of enzymes in such compositions is considerably less than in granular detergents. However, by using typical enzyme stabilizers such as formate and boric acid, lipase and cellulase enzymes can be protected. . .

DETD . . . 30.degree. C., and substrate is an emulsion tributyrin and gum arabic, in the presence of Ca.sup.++ and NaCl in phosphate buffer.

L88 ANSWER 8 OF 25 USPATFULL on STN

ACCESSION NUMBER: 93:104610 USPATFULL

TITLE: Oxidant composition containing stable bleach activator granules

INVENTOR(S): Brodbeck, Kevin J., Pleasanton, CA, United States
 Ottoboni, Thomas B., Belmont, CA, United States
 Spillett, Cris T., Walnut Creek, CA, United States
 Steichen, Dale S., Danbury, CT, United States
 Thompson, Suzanne M., Oakland, CA, United States
 Zielske, Alfred G., Pleasanton, CA, United States
 Bolkan, Steven A., Pleasanton, CA, United States

PATENT ASSIGNEE(S): The Clorox Company, Oakland, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5269962		19931214
APPLICATION INFO.:	US 1991-674844		19910325 (7)
DISCLAIMER DATE:	20051018		
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1988-258225, filed on 14 Oct 1988, now patented, Pat. No. US 5002691		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Lovering, Richard D.		
ASSISTANT EXAMINER:	Anthony, Joseph D.		
LEGAL REPRESENTATIVE:	Hayashida, Joel J., Mazza, Michael J., Pacini, Harry A.		
NUMBER OF CLAIMS:	28		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	1612		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides stable bleach activator granules comprising:

(a) a peroxygen bleach activator having the structure: ##STR1## wherein R is C.sub.1-20 branched or straight chain alkyl, alkoxyalkyl, cycloalkyl, alkenyl, aryl, substituted aryl, alkylaryl; R' and R" are independently H, C.sub.1-4 alkyl, aryl; and L is a leaving group;

b) a pliable binding material selected from materials having a melting completion temperature of greater than about 40.degree. C.; and

c) a solubilizing aid selected from the group consisting of magnesium sulfate, alkali aryl sulfonate, polyvinyl pyrrolidone or mixtures thereof.

for post clean treatment of metal or dielec. surfaces in manuf. of wafers, etc.)

IT Polyamines

RL: MOA (Modifier or additive use); USES (Uses)

(polyalkylene-; amine compd.-buffered org. acids for post clean treatment of metal or dielec. surfaces in manuf. of wafers, etc.)

- IT 50-81-7, Ascorbic acid, uses 64-18-6, Formic acid, uses 64-19-7, Acetic acid, uses 65-85-0, Benzoic acid, uses 69-72-7, Salicylic acid, uses 77-92-9, Citric acid, uses 79-09-4, Propionic acid, uses 87-69-4, Tartaric acid, uses 107-92-6, Butyric acid, uses 110-15-6, Succinic acid, uses 141-82-2, Malonic acid, uses 144-62-7, Oxalic acid, uses 149-91-7, Gallic acid, uses 526-95-4, Gluconic acid 6915-15-7, Malic acid

RL: TEM (Technical or engineered material use); USES (Uses)

(amine compd.-buffered org. acids for post clean treatment of metal or dielec. surfaces in manuf. of wafers, etc.)

- IT 60-00-4, EDTA, uses 94-67-7, Salicylaldehyde 123-41-1, Choline hydroxide 148-24-3, 8-Hydroxyquinoline, uses

RL: MOA (Modifier or additive use); USES (Uses)

(chelating agent; amine compd.-buffered org. acids for post clean treatment of metal or dielec. surfaces in manuf. of wafers, etc.)

- IT 78-10-4, TEOS 7631-86-9, Silicon dioxide, uses 197389-01-8, Boron phosphorus silicon oxide

RL: TEM (Technical or engineered material use); USES (Uses)

(dielec.; amine compd.-buffered org. acids for post clean treatment of metal or dielec. surfaces in manuf. of wafers, etc.)

- IT 141-43-5, Monoethanolamine, uses 302-01-2, Hydrazine, uses 302-01-20, Hydrazine, salts 929-06-6, Diglycolamine 1336-21-6, Ammonium hydroxide 7803-49-8, Hydroxylamine, uses

RL: MOA (Modifier or additive use); USES (Uses)

(neutralizing agent for org. acids; amine compd.-buffered org. acids for post clean treatment of metal or dielec. surfaces in manuf. of wafers, etc.)

- IT 79-21-0, Peracetic acid 124-43-6 7727-54-0, Ammonium peroxydisulfate 11138-47-9, Sodium perborate 15630-89-4, Sodium percarbonate

RL: MOA (Modifier or additive use); USES (Uses)

(oxidizers; amine compd.-buffered org. acids for post clean treatment of metal or dielec. surfaces in manuf. of wafers, etc.)

- IT 7429-90-5, Aluminum, uses 7440-25-7, Tantalum, uses 7440-32-6, Titanium, uses 7440-33-7, Tungsten, uses 7440-50-8, Copper, uses 11100-89-3 12642-02-3

RL: TEM (Technical or engineered material use); USES (Uses)

(wafer blanket; amine compd.-buffered org. acids for post clean treatment of metal or dielec. surfaces in manuf. of wafers, etc.)

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L88 ANSWER 13 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:409129 HCAPLUS

DOCUMENT NUMBER: 136:406882

TITLE: Stable formulation of topically active ingredients

INVENTOR(S): Lapidot, Noa; Magdassi, Shlomo; Avnir, David; Rottman, Claudio; Gans, Orit; Seri-levy, Alon

PATENT ASSIGNEE(S): Israel

SOURCE: U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of Appl. No. PCT/IL2001/00370.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002064541	A1	20020530	US 2001-983229	20011023
WO 2001080823	A2	20011101	WO 2001-IL370	20010420

452002 064541
6

WO 2001080823 A3 20030530

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

WO 2003034979 A2 20030501 WO 2002-IL851 20021023

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2000-198749P P 20000424
 WO 2001-IL370 A2 20010420
 US 2001-983229 A 20011023

AB A therapeutic, cosmetic or cosmeceutic compn. for topical application, capable of stabilizing an active ingredient and delivering the active ingredient, comprises a plurality of microcapsules having a core-shell structure. The microcapsules have a diam. of approx. 0.1 to 100 .mu.. The core of each microcapsule includes at least one active ingredient and is encapsulated within a microcapsular shell. The shell is comprised of at least one inorg. polymer obtained by a sol-gel process, and the shell protects the active ingredient before topical application and is designed to release the active ingredient from the microcapsules following application. The compn. is useful in encapsulating active ingredients, such as benzoyl peroxide, that are unstable in other formulation, or are irritating to the skin. Me salicylate were mixed with tetraethoxysilane (TEOS). The org. phase was emulsified in an aq. soln. contg. 1% cetyltrimethyl ammonium chloride (CTAC) under high shear. This emulsion was then poured into a reactor contg. aq. NaOH soln. at pH 11.5. The soln. was stirred and after 7 days the product was pptd. in a centrifuge. The final product was re-suspended in water contg. 1% polyvinylpyrrolidone to receive a suspension contg. 32.4% Me salicylate encapsulated in silica particles of 0.5-10 .mu..

IT 7632-04-4, Sodium perborate

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)

(stable formulation of topically active ingredients)

RN 7632-04-4 HCAPLUS

CN Perboric acid (HBO(O2)), sodium salt (9CI) (CA INDEX NAME)

O=B-O-OH

O Na

=> d ind 13

L88 ANSWER 13 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN

IC ICM A61K007-00

ICS A61K009-16; A61K009-50

NCL 424401000

CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 62
 ST topical formulation microcapsule polymer; cosmetic microcapsule polymer
 IT Cosmetics

Drug delivery systems
 (aerosols; stable formulation of topically active ingredients)
 IT Skin, disease
 (aging; stable formulation of topically active ingredients)
 IT Polysiloxanes, biological studies
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (alkoxy; stable formulation of topically active ingredients)
 IT Polysiloxanes, biological studies
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (alkyl; stable formulation of topically active ingredients)
 IT Polyelectrolytes
 Surfactants
 (amphoteric; stable formulation of topically active ingredients)
 IT Polyelectrolytes
 Surfactants
 (anionic; stable formulation of topically active ingredients)
 IT Polyelectrolytes
 Surfactants
 (cationic; stable formulation of topically active ingredients)
 IT Hair preparations
 (conditioners; stable formulation of topically active ingredients)
 IT Polymer morphology
 (core-shell; stable formulation of topically active ingredients)
 IT Cosmetics
 (cosmeceuticals; stable formulation of topically active ingredients)
 IT Cosmetics
 (creams; stable formulation of topically active ingredients)
 IT Polyoxyalkylenes, biological studies
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (di-Me, Me hydrogen polysiloxane-; stable formulation of topically
 active ingredients)
 IT Polysiloxanes, biological studies
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (di-Me, Me hydrogen, polyoxyalkylene-; stable formulation of topically
 active ingredients)
 IT Cyclosiloxanes
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (di-Me; stable formulation of topically active ingredients)
 IT Cosmetics
 Drug delivery systems
 (emollients; stable formulation of topically active ingredients)
 IT Cosmetics
 Drug delivery systems
 (emulsions; stable formulation of topically active ingredients)
 IT Cosmetics
 Drug delivery systems
 (gels; stable formulation of topically active ingredients)
 IT Carboxylic acids, biological studies
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (hydroxy; stable formulation of topically active ingredients)
 IT Acne
 Dandruff
 Psoriasis
 Seborrhea
 (inhibitors; stable formulation of topically active ingredients)
 IT Cosmetics
 Drug delivery systems

← more general
 than the
 claimed opd

(lotions; stable formulation of topically active ingredients)

IT Cosmetics
(makeups; stable formulation of topically active ingredients)

IT Drug delivery systems
(microcapsules; stable formulation of topically active ingredients)

IT Pulverization
(micronization; stable formulation of topically active ingredients)

IT Surfactants
(nonionic; stable formulation of topically active ingredients)

IT Drug delivery systems
(ointments, creams; stable formulation of topically active ingredients)

IT Drug delivery systems
(ointments; stable formulation of topically active ingredients)

IT Drug delivery systems
(pastes; stable formulation of topically active ingredients)

IT Betaines
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
(phosphobetaines, polymers contg.; stable formulation of topically active ingredients)

IT Alcohols, biological studies
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
(polyhydric; stable formulation of topically active ingredients)

IT Betaines
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
(polymers contg.; stable formulation of topically active ingredients)

IT Hydrocarbons, biological studies
Metal alkoxides
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
(polymers; stable formulation of topically active ingredients)

IT Drug delivery systems
(powders; stable formulation of topically active ingredients)

IT Cosmetics
(skin-lightening; stable formulation of topically active ingredients)

IT Analgesics
Anti-inflammatory agents
Antibiotics
Antifoaming agents
Antihistamines
Antioxidants
Antiviral agents
Buffers
Cosmetics
Dentifrices
Dyes
Electrolytes
Emulsifying agents
Flavor
Fungicides
Grinding (size reduction)
Hair
Humectants
Insect repellents
Mixing
Odor and Odorous substances
Particle size distribution
Perfumes
Pigments, nonbiological
Preservatives
Propellants (sprays and foams)
Sequestering agents
Shampoos
Skin
Sol-gel transition

Surfactants
Thickening agents
Wetting

Wetting agents

(stable formulation of topically active ingredients)

IT Amino acids, biological studies

Coenzymes

Enzymes, biological studies

Fatty acids, biological studies

Polymers, biological studies

Polysaccharides, biological studies

Polysiloxanes, biological studies

Proteins

Retinoids

Silazanes

Vitamins

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);

USES (Uses)

(stable formulation of topically active ingredients)

IT Drug delivery systems

(suspensions; stable formulation of topically active ingredients)

IT Drug delivery systems

(topical; stable formulation of topically active ingredients)

IT 94-36-0, Benzoyl peroxide, biological studies 119-36-8, Methyl salicylate 5466-77-3

RL: COS (Cosmetic use); PEP (Physical, engineering or chemical process);

PYP (Physical process); THU (Therapeutic use); BIOL (Biological study);

PROC (Process); USES (Uses)

(stable formulation of topically active ingredients)

IT 50-81-7, Vitamin C, biological studies 56-81-5, Glycerol, biological studies 58-95-7, Vitamin E acetate 60-00-4, EDTA, biological studies 60-54-8, Tetracycline 65-85-0D, Benzoic acid, C12-15 alkyl esters 103-23-1, Diethylhexyl adipate 110-27-0, Isopropyl myristate 111-90-0, Transcutol 112-02-7, CTAC 112-80-1, Oleic acid, biological studies 114-07-8, Erythromycin 118-60-5, 2-Ethylhexyl salicylate 122-62-3 124-43-6 128-37-0, BHT, biological studies 142-16-5, Bis(2-ethylhexyl) maleate 1406-18-4, Vitamin E 1429-50-1, Ethylenediaminetetra(methylene phosphonic acid) 1633-00-7, Hexamethylenediaminetetraacetic acid 2787-09-9, Synthomycin 6938-94-9, Diisopropyl adipate 7147-34-4, Bernel Ester TOC 7491-02-3, Diisopropyl sebacate 7632-04-4, Sodium perborate 9003-39-8, PVP 9005-64-5, Tween 20 9006-65-9, Dimethicone 10099-70-4, Diisopropyl maleate 10578-34-4, Stearyl benzoate 15630-89-4, Sodium percarbonate 15827-60-8, Diethylenetriaminepenta(methylenephosphonic acid) 18323-44-9, Clindamycin 19666-16-1, Tridecyl salicylate 23605-74-5 25013-16-5, BHA 34364-24-4, Isostearyl benzoate 34562-29-3, .alpha.-Tocopherol palmitate 108347-89-3 108347-90-6, Polypropylene glycol stearyl ether benzoate 114355-44-1, Poloxamer 182 dibenzoate 145686-34-6, Abil EM90 153190-98-8, Poloxamer 105 benzoate 190085-41-7 383419-34-9, Methyl gluceth-20 benzoate

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);

USES (Uses)

(stable formulation of topically active ingredients)

IT 11099-06-2P, Ethyl silicate

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(stable formulation of topically active ingredients)

IT 78-10-4, Tetraethoxysilane

RL: RCT (Reactant); RACT (Reactant or reagent)

(stable formulation of topically active ingredients)

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L88 ANSWER 14 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2001:798023 HCAPLUS

DOCUMENT NUMBER: 135:348882
 TITLE: Inorganic polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients
 INVENTOR(S): Lapidot, Noa; Magdassi, Shlomo; Avnir, David; Rottman, Claudio; Gans, Orit; Seri-Levy, Alon
 PATENT ASSIGNEE(S): Sol-Gel Technologies Ltd., Israel
 SOURCE: PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001080823	A2	20011101	WO 2001-IL370	20010420
WO 2001080823	A3	20030530		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
BR 2001010600	A	20030415	BR 2001-10600	20010420
EP 1335693	A2	20030820	EP 2001-925838	20010420
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2002064541	A1	20020530	US 2001-983229	20011023
PRIORITY APPLN. INFO.:			US 2000-198749P P	20000421
			WO 2001-IL370 W	20010420

AB A therapeutic or cosmetic compn. for topical application, capable of stabilizing an active ingredient and delivering said ingredient, comprising a plurality of microcapsules having a core-shell structure and a diam. of approx. 0.1-100 .mu.. The core of each microcapsule includes at least one active ingredient, and is encapsulated within a microcapsular shell. The shell is comprised of at least one inorg. polymer obtained by a sol-gel process, and the shell protects the active ingredient before topical application and releases the ingredient after topical application. This compn. is useful to encapsulate active ingredients that are unstable in formulation, or are irritating to the skin. The present invention further discloses a process for the encapsulation of an active ingredient in the form of a dispersion within a hydrophobic phase. For example, combinations of erythromycin and benzoyl peroxide are useful in the treatment of acne but usually must be formulated as a two component system because of incompatibility of the two active ingredients. Thus, erythromycin was encapsulated in silica; 1.7 g of erythromycin was mixed with 14.9 g of octylmethoxy cinnamate, and 19.5 g of tetraethoxy silane (TEOS) was added. This oil phase was emulsified and the emulsion was poured into a basic soln. of pH 11.5. The mixt. was stirred at 50-240 rpm. Flocculation was induced by the addn. of MgSO4 at a final concn. of 0.1% by wt. The ppt. was collected by filtration and a product obtained was a paste with a particle size distribution of 1-12 .mu. (an av. size of 6.2 .mu.). Encapsulation of benzoyl peroxide (30 g of 7% soln. in diisopropyl sebacate) was carried out by mixing it with 20 g of TEOS. The org. phase was emulsified in 200 g of an aq. soln. contg. 1% CTAC under high shear. The emulsion obtained was poured into a reactor contg. 200 g NaOH aq. soln. at pH 10 and stirred. The final product was re-suspended in water to obtain a dispersion contg. a 3% benzoyl peroxide encapsulated in silica particles of 0.5015 .mu..

IT 7632-04-4, Sodium perborate
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (inorg. polymer-based microcapsules with enhanced formulation stability)

and delivery of topical active ingredients)
 RN 7632-04-4 HCAPLUS
 CN Perboric acid (HBO(02)), sodium salt (9CI) (CA INDEX NAME)

O=B-O-OH

⊙ Na

IC ICM A61K009-00
 CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 62
 ST inorg polymer encapsulation topical cosmetic microcapsule
 IT Cosmetics
 Drug delivery systems
 (aerosols; inorg. polymer-based microcapsules with enhanced formulation
 stability and delivery of topical active ingredients)
 IT Functional groups
 (alkanolamide; inorg. polymer-based microcapsules with enhanced
 formulation stability and delivery of topical active ingredients)
 IT Functional groups
 (alkoxycarbonyl groups; inorg. polymer-based microcapsules with
 enhanced formulation stability and delivery of topical active
 ingredients)
 IT Functional groups
 (aminopropionate; inorg. polymer-based microcapsules with enhanced
 formulation stability and delivery of topical active ingredients)
 IT Polyelectrolytes
 (amphoteric, -silicones; inorg. polymer-based microcapsules with
 enhanced formulation stability and delivery of topical active
 ingredients)
 IT Polyelectrolytes
 (cationic, -silicones; inorg. polymer-based microcapsules with enhanced
 formulation stability and delivery of topical active ingredients)
 IT Hair preparations
 (conditioners; inorg. polymer-based microcapsules with enhanced
 formulation stability and delivery of topical active ingredients)
 IT Capsules
 (cosmetic microcapsules; inorg. polymer-based microcapsules with
 enhanced formulation stability and delivery of topical active
 ingredients)
 IT Cosmetics
 (creams; inorg. polymer-based microcapsules with enhanced formulation
 stability and delivery of topical active ingredients)
 IT Polyoxyalkylenes, biological studies
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (di-Me, Me hydrogen polysiloxane-; inorg. polymer-based microcapsules
 with enhanced formulation stability and delivery of topical active
 ingredients)
 IT Polysiloxanes, biological studies
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (di-Me, Me hydrogen, polyoxyalkylene-; inorg. polymer-based
 microcapsules with enhanced formulation stability and delivery of
 topical active ingredients)
 IT Cosmetics
 Drug delivery systems
 (emulsions; inorg. polymer-based microcapsules with enhanced
 formulation stability and delivery of topical active ingredients)
 IT Cosmetics
 Drug delivery systems
 (foams; inorg. polymer-based microcapsules with enhanced formulation
 stability and delivery of topical active ingredients)

- IT Cosmetics
 - Drug delivery systems
 - (gels; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Solvents
 - (high b.p.; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Carboxylic acids, biological studies
 - RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (hydroxy, salts; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Carboxylic acids, biological studies
 - RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (hydroxy; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Analgesics
 - Anti-inflammatory agents
 - Antibiotics
 - Antifoaming agents
 - Antihistamines
 - Antioxidants
 - Antiviral agents
 - Buffers
 - Carboxyl group
 - Coloring materials
 - Cosmetics
 - Dentifrices
 - Dyes
 - Electrolytes
 - Emulsifying agents
 - Encapsulation
 - Flavoring materials
 - Fungicides
 - Humectants
 - Insect repellents
 - Odor and Odorous substances
 - Perfumes
 - Phosphate group
 - Pigments, nonbiological
 - Preservatives
 - Propellants (sprays and foams)
 - Sequestering agents
 - Shampoos
 - Skin preparations (pharmaceutical)
 - Sunscreens
 - Surfactants
 - Thickening agents
 - (inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Amino acids, biological studies
 - Aromatic oils (hydrocarbons)
 - Betaines
 - Coenzymes
 - Enzymes, biological studies
 - Fatty acids, biological studies
 - Peroxides, biological studies
 - Polymers, biological studies
 - Polysaccharides, biological studies
 - Proteins, general, biological studies
 - Quaternary ammonium compounds, biological studies
 - Retinoids
 - Vitamins
 - RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)

- and delivery of topical active ingredients)
- IT Polymers, biological studies
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (inorg.; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Drug delivery systems
 (liqs., dispersions; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Cosmetics
 (liqs.; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Cosmetics
 Drug delivery systems
 (lotions; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Cosmetics
 (makeups; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Cosmetics
 Drug delivery systems
 (microcapsules; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Cosmetics
 (nail lacquers; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Cosmetics
 Drug delivery systems
 (oily; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Drug delivery systems
 (ointments, creams; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Drug delivery systems
 (ointments; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Cosmetics
 Drug delivery systems
 (pastes; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Antioxidants
 (pharmaceutical; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Betaines
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (phosphobetaines; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Polysiloxanes, biological studies
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (polyester-; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Alcohols, biological studies
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (polyhydric, lower; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Polyesters, biological studies
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (polysiloxane-; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Cosmetics
 Drug delivery systems
 (powders; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)

- IT Cosmetics
(skin-lightening; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)

- IT Cosmetics
Drug delivery systems
(solids; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Drug delivery systems
(solns.; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Cosmetics
Drug delivery systems
(sprays; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Cosmetics
(sticks; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Functional groups
(sulfate; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Functional groups
(sulfonate group; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Polymers, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sulfonated, -silicones; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Functional groups
(sulfosuccinate; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Cosmetics
Drug delivery systems
(suspensions; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Functional groups
(thiosulfonate; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Drug delivery systems
(topical; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT Acne
(treatment; inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT 94-36-0, Benzoyl peroxide, biological studies 124-43-6
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(inorg. polymer-based microcapsules with enhanced formulation stability and delivery of topical active ingredients)
- IT 50-81-7, Vitamin C, biological studies 50-81-7D, Vitamin C, esters and salts 56-81-5, Glycerol, biological studies 58-95-7, Vitamin E acetate 60-00-4, Ethylenediamine tetra acetic acid, biological studies 60-54-8, Tetracycline 65-85-0D, Benzoic acid, C12-15 alkyl esters, biological studies 78-10-4, Tetraethoxysilane 103-23-1, Diethylhexyladipate 110-27-0, Isopropylmyristate 111-90-0, Transcutol 112-02-7, CTAC 112-80-1, Oleic acid, biological studies 114-07-8, Erythromycin 118-60-5, 2-Ethylhexyl salicylate 119-36-8, Methyl salicylate 122-62-3 128-37-0, BHT, biological studies 142-16-5 1406-18-4, Vitamin E 1429-50-1, Ethylenediamine tetra (methylenephosphonic acid) 1633-00-7, Hexamethylenediamine tetra acetic acid 2787-09-9, Synthomycin 5466-77-3 6938-94-9, Diisopropyladipate 7147-34-4, Bernel ester TOC 7491-02-3, Diisopropylsebacate 7631-86-9, Silica, biological studies 7632-04-4, Sodium perborate 9003-39-8, Polyvinylpyrrolidone 9006-65-9, Dimethicone 10099-70-4, Diisopropylmaleate 10578-34-4, Stearyl benzoate 15630-89-4, Sodium percarbonate 15827-60-8, Diethylenetriamine penta (methylenephosphonic acid) 18323-44-9,

Clindamycin 19666-16-1, Tridecylsalicylate 23605-74-5 25013-16-5,
 BHA 34364-24-4, Isostearyl benzoate 42557-10-8, Dow Corning 200
 108347-89-3 108347-90-6 113973-04-9 114355-44-1 141121-11-1
 145686-34-6, Abil-EM 90-153190-98-8, Poloxamer 105 benzoate
 190085-41-7

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (inorg. polymer-based microcapsules with enhanced formulation stability
 and delivery of topical active ingredients)

L88 ANSWER 15 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:578597 HCAPLUS

DOCUMENT NUMBER: 135:124156

TITLE: Bactericide combinations in detergents

INVENTOR(S): Elsmore, Richard; Houghton, Mark Phillip

PATENT ASSIGNEE(S): Robert McBride Ltd., UK

SOURCE: Brit. UK Pat. Appl., 53 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2354771	A1	20010404	GB 1999-23253	19991001
PRIORITY APPLN. INFO.:			GB 1999-23253	19991001

AB The detergent comprises a bactericide in combination with an anionic, cationic, nonionic or amphoteric surfactant which has a C12-18 alkyl group as the longest chain attached to the hydrophilic moiety. Creduret 50 (hydrogenated ethoxylated castor oil) 50, citric acid 12, formalin 10, sodium alkyl benzene sulfonate (C12-20) alkyl 1, perfume white line 0.5, detergent enzyme savingase 0.2, and bactericide Pr 4-hydroxybenzoate 1.0 parts formed a detergent, showing redn. activity after contact 2.

IT 7601-54-9D, Trisodium phosphate, chlorinated 7632-04-4

10332-33-9 10486-00-7 27323-41-7

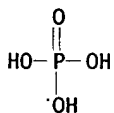
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);

BIOL (Biological study); USES (Uses)

(bactericide combinations in detergents)

RN 7601-54-9 HCAPLUS

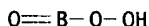
CN Phosphoric acid, trisodium salt (8CI, 9CI) (CA INDEX NAME)



O3 Na

RN 7632-04-4 HCAPLUS

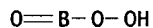
CN Perboric acid (HBO(02)), sodium salt (9CI) (CA INDEX NAME)



O Na

RN 10332-33-9 HCAPLUS

CN Perboric acid (HBO(02)), sodium salt, monohydrate (9CI) (CA INDEX NAME)

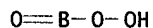


● Na

H₂O

RN 10486-00-7 HCAPLUS

CN Perboric acid (HBO(02)), sodium salt, tetrahydrate (9CI) (CA INDEX NAME)



● Na

4 H₂O

RN 27323-41-7 HCAPLUS

CN Benzenesulfonic acid, dodecyl-, compd. with 2,2',2''-nitrilotris[ethanol]
(1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 27176-87-0

CMF C18 H30 O3 S

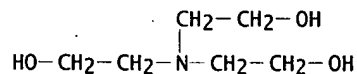
CCI IDS

D1-SO₃HMe-(CH₂)₁₁-D1

CM 2

CRN 102-71-6

CMF C6 H15 N O3



IC ICM C11D003-48

CC 46-6 (Surface Active Agents and Detergents)

ST bactericide surfactant detergent

IT Balsams

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (Canada; bactericide combinations in detergents)

- IT Amine oxides
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (C10-16-alkyldimethyl; bactericide combinations in detergents)
- IT Quaternary ammonium compounds, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (C12-14-alkyltrimethyl, chlorides; bactericide combinations in detergents)
- IT Amines, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (C12-18-alkyl; bactericide combinations in detergents)
- IT Amines, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (C14-18-alkyl; bactericide combinations in detergents)
- IT Alcohols, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (C16-18, ethoxylated; bactericide combinations in detergents)
- IT Fatty acids, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (C16-18, phentachlorophenyl esters; bactericide combinations in detergents)
- IT Amines, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (C16-18-unsatd. alkyl; bactericide combinations in detergents)
- IT Amines, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (C8-10-alkyl; bactericide combinations in detergents)
- IT Fatty acids, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (C8-10; bactericide combinations in detergents)
- IT Amines, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (C8-18-alkyl; bactericide combinations in detergents)
- IT Amines, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (N-C10-18-alkyltrimethylenediamines, reaction products with
 chloroacetic acid; bactericide combinations in detergents)
- IT Amines, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (N-coco alkyltrimethylenediamines; bactericide combinations in detergents)
- IT Amines, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (N-tallow alkyltrimethylenediamines, ethoxylated; bactericide combinations in detergents)
- IT Amines, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (N-tallow alkyltrimethylenediamines; bactericide combinations in detergents)
- IT Balsams
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);

- BIOL (Biological study); USES (Uses)
(Peru; bactericide combinations in detergents)
- IT Resins
 - RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 - BIOL (Biological study); USES (Uses)
(Siam gum benzoin; bactericide combinations in detergents)
- IT Anthracene oil
 - (acid ext. for bactericide combinations in detergents)
- IT Pimenta
 - (acris; ext. for bactericide combinations in detergents)
- IT Carboxylic acids, uses
 - RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 - BIOL (Biological study); USES (Uses)
(aliph., salts; bactericide combinations in detergents)
- IT Quaternary ammonium compounds, uses
 - RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 - BIOL (Biological study); USES (Uses)
(alkylbenzyl dimethyl, chlorides; bactericide combinations in detergents)
- IT Surfactants
 - (amphoteric; bactericide combinations in detergents)
- IT Surfactants
 - (anionic; bactericide combinations in detergents)
- IT Antibacterial agents
 - Creosote
(bactericide combinations in detergents)
- IT Asphalt
 - Coconut oil
 - Creosote oil
 - Epoxy resins, uses
 - Hydrocarbon oils
 - Paraffin oils
 - Pyrethrins
 - Tar acids
 - RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 - BIOL (Biological study); USES (Uses)
(bactericide combinations in detergents)
- IT Quaternary ammonium compounds, uses
 - RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 - BIOL (Biological study); USES (Uses)
(benzyl-C12-14-alkyldimethyl, chlorides; bactericide combinations in detergents)
- IT Quaternary ammonium compounds, uses
 - RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 - BIOL (Biological study); USES (Uses)
(benzyl-C12-16-alkyldimethyl, chlorides; bactericide combinations in detergents)
- IT Quaternary ammonium compounds, uses
 - RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 - BIOL (Biological study); USES (Uses)
(benzyl-C12-18-alkyldimethyl, chlorides; bactericide combinations in detergents)
- IT Quaternary ammonium compounds, uses
 - RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 - BIOL (Biological study); USES (Uses)
(benzyl-C12-18-alkyldimethyl, salts with 1,2-benzisothiazol-3(2H)-one 1,1-dioxide (1:1); bactericide combinations in detergents)
- IT Quaternary ammonium compounds, uses
 - RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 - BIOL (Biological study); USES (Uses)
(benzyl-C16-18-alkyldimethyl, chlorides; bactericide combinations in detergents)
- IT Almond (*Prunus amygdalus*)
 - (bitter; ext. for bactericide combinations in detergents)
- IT Essential oils
 - RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 - BIOL (Biological study); USES (Uses)

(cade; bactericide combinations in detergents)

IT Essential oils
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (cassia; bactericide combinations in detergents)

IT Secretions (external)
 (castoreum; bactericide combinations in detergents)

IT Surfactants
 (cationic; bactericide combinations in detergents)

IT Essential oils
 RL: MOA (Modifier or additive use); USES (Uses)
 (cedar; for bactericide combinations in detergents)

IT Essential oils
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (clove; bactericide combinations in detergents)

IT Amines, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (coco alkyl, acetates; bactericide combinations in detergents)

IT Amines, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (coco alkyl; bactericide combinations in detergents)

IT Amines, uses
 Betaines
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (coco alkyl dimethyl; bactericide combinations in detergents)

IT Quaternary ammonium compounds, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (coco alkyl trimethyl, chlorides; bactericide combinations in detergents)

IT Fatty acids, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (coco, reaction products with aminoethylaminoethanol, quaternized; bactericide combinations in detergents)

IT Amine oxides
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (coco alkyl dimethyl; bactericide combinations in detergents)

IT Balsams
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (copaiba; bactericide combinations in detergents)

IT Naphthenic acids, uses
 Resin acids
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (copper salts; bactericide combinations in detergents)

IT Essential oils
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (cypress; bactericide combinations in detergents)

IT Polysulfides
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (di-tert-nonyl; bactericide combinations in detergents)

IT Quaternary ammonium compounds, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (dialkyl dimethyl, chlorides; bactericide combinations in detergents)

IT Quaternary ammonium compounds, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)

(dicoco alkyl dimethyl, chlorides; bactericide combinations in detergents)

- IT Amines, uses
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (dimethyl tallow alkyl; bactericide combinations in detergents)
- IT Coal tar
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (distillate; bactericide combinations in detergents)
- IT Essential oils
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)
 (eucalyptus; bactericide combinations in detergents)
- IT Abolmoschus moschatus
 Allspice (Pimenta dioica)
 Amyris balsamifera
 Angelica archangelica
 Aniba rosaeodora
 Anise
 Artemisia
 Artemisia maritima
 Camphor tree (Cinnamomum camphora)
 Capsicum frutescens
 Caraway (Carum carvi)
 Chrysanthemum cinerariaefolium
 Cinnamomum zeylanicum
 Cistus ladanifer
 Citrus medica
 Coriander
 Cumin
 Cymbopogon citratus
 Cymbopogon nardus
 Cymbopogon winterianus
 Dill
 Dipteryx odorata
 Evernia furfuracea
 Evernia prunastri
 Fennel (Foeniculum vulgare)
 Fennel (Foeniculum vulgare vulgare)
 Fir (Abies balsamea)
 Gaultheria procumbens
 Ginger
 Grapefruit
 Guaiacum officinale
 Hay
 Hedeoma pulegioides
 Helichrysum stoechas
 Iris pseudacorus
 Jasmine (Jasminum grandiflorum)
 Juniper (Juniperus communis)
 Juniper (Juniperus mexicana)
 Juniper (Juniperus virginiana)
 Laurus nobilis
 Lavender (Lavandula hybrida)
 Lavender (Lavandula spica)
 Lime (Citrus aurantifolia)
 Mandarin orange
 Melaleuca alternifolia
 Mentha arvensis piperascens
 Musks
 Myristica fragrans
 Narcissus juncifolius
 Parsley (Petroselinum crispum)
 Patchouli
 Peppermint (Mentha piperita)
 Pimenta racemosa

Pine (Pinus)
Pine (Pinus pumila)
Pine (Pinus sylvestris)
Propolis
Rose (Rosa damascena)
Rosemary
Sage (Salvia sclarea)
Sandalwood (Santalum album)
Spanish marjoram
Spartium junceum
Spearment (Mentha spicata)
St.-John's-wort (Hypericum perforatum)
Star anise (Illicium verum)
Thyme (Thymus capitatus)
Vaccinium myrtillus
Valerian (Valeriana)
Vetiveria zizanioides
Viola odorata
Wheat
Ylang-ylang (Cananga odorata)
(ext. for bactericide combinations in detergents)
IT Bergamot (Citrus bergamia)
Birch (Betula lenta)
Birch (Betula pendula)
Ocimum basilicum
Savory (Satureja hortensis)
(ext.; bactericide combinations in detergents)
IT Essential oils
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(geranium; bactericide combinations in detergents)
IT Amines, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(hydrogenated tallow alkyl, acetates; bactericide combinations in
detergents)
IT Resin acids
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(hydrogenated, Me esters; bactericide combinations in detergents)
IT Collagens, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(hydrolyzates, [3-(dodecyltrimethylammonio)-2-hydroxypropyl], chlorides;
bactericide combinations in detergents)
IT Naphthenic acids, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(iron salts; bactericide combinations in detergents)
IT Essential oils
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(lavender; bactericide combinations in detergents)
IT Essential oils
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(lemon, extrn. residues; bactericide combinations in detergents)
IT Detergents
(liq.; bactericide combinations in detergents)
IT Fats and Glyceridic oils, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(margosa; bactericide combinations in detergents)
IT Essential oils
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(mint, Mentha; bactericide combinations in detergents)

IT Perfumes
(myrrh; ext. for bactericide combinations in detergents)

IT Surfactants
(nonionic; bactericide combinations in detergents)

IT Resins
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(olibanum; bactericide combinations in detergents)

IT Resins
(opopanax; bactericide combinations in detergents)

IT Essential oils
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(peppermint; bactericide combinations in detergents)

IT Essential oils
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(pine; bactericide combinations in detergents)

IT Fatty acids, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(potassium salts; bactericide combinations in detergents)

IT Protein hydrolyzates
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(reaction products with undecenoyl chloride, salts; bactericide combinations in detergents)

IT Pelargonium graveolens
(sapond. ext. for bactericide combinations in detergents)

IT Orange
(sour; ext. for bactericide combinations in detergents)

IT Balsams
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(storax; bactericide combinations in detergents)

IT Orange
(sweet, Valencia; ext. for bactericide combinations in detergents)

IT Almond (Prunus amygdalus)
Orange
(sweet; ext. for bactericide combinations in detergents)

IT Amines, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(tallow alkyl, ethoxylated, reaction products with chloroacetic acid;
ext. for bactericide combinations in detergents)

IT Amines, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(tallow alkyl; bactericide combinations in detergents)

IT Fatty acids, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(tallow, reaction products with triethanolamine, quaternized;
bactericide combinations in detergents)

IT Essential oils
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(thyme, Thymus vulgaris; bactericide combinations in detergents)

IT Balsams
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(tolu; bactericide combinations in detergents)

IT Balsams
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(tonka bean; bactericide combinations in detergents)

IT Amines, uses

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)
(unsatd., C18; bactericide combinations in detergents)

IT Naphthenic acids, uses

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)

(zinc salts; bactericide combinations in detergents)

IT 58999-88-5D, 1-Propanaminium, 3-amino-N,N,N-trimethyl-, derivs.

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)

(N-C12-18 acyl derivs., Me sulfates; bactericide combinations in detergents)

IT 50-00-0, Formaldehyde, uses 50-00-0D, Formaldehyde, reaction products, uses 50-14-6 50-21-5, uses 50-65-7 50-99-7, D-Glucose, uses 51-03-6 51-28-5, uses 52-51-7 52-68-6 54-21-7 54-64-8 55-38-9 55-56-1 55-86-7 56-35-9 56-36-0 56-37-1 56-38-2 56-95-1 57-09-0 57-10-3, Hexadecanoic acid, uses 57-15-8 57-24-9, Strychnidin-10-one 57-55-6D, Propylene glycol, reaction products with formaldehyde 58-36-6 58-89-9 59-50-7 59-87-0 60-12-8, Benzeneethanol 60-51-5 61-73-4 62-38-4 62-56-6, Thiourea, uses 62-73-7 63-25-2 64-18-6, Formic acid, uses 64-18-6D, Formic acid, reaction products 64-19-7D, Acetic acid, derivs., uses 64-69-7 67-20-9 67-63-0D, 2-Propanol, reaction products with boron trifluoride and 5-ethylidenebicyclo[2.2.1]hept-2-ene, uses 67-66-3, uses 67-68-5, uses 67-97-0 69-72-7, uses 70-55-3 71-23-8, 1-Propanol, uses 71-41-0, 1-Pentanol, uses 72-43-5 72-56-0 74-83-9, uses 75-12-7D, Formamide, reaction products with formaldehyde, uses 75-21-8, Oxirane, uses 75-31-0, 2-Propanamine, uses 75-91-2 76-06-2 76-22-2 76-39-1 76-87-9 77-42-9 77-48-5 77-49-6 77-78-1D, Dimethyl sulfate, quaternized with 9-octadecenoic acid/triethanolamine reaction products 77-78-1D, Dimethyl sulfate, quaternized with fatty acid/triethanolamine reaction products 77-92-9, uses 78-59-1 78-69-3 78-70-6 78-79-5D, Isoprene, reaction products with acetic acid 78-83-1, uses 78-92-2, 2-Butanol 79-07-2 79-08-3 79-11-8, uses 79-11-8D, Chloroacetic acid, reaction products with N-C10-16-alkyltrimethylenediamines 79-11-8D, Acetic acid, chloro-, reaction products with diethylenetriamine N-mono- and di-C8-18-alkyl derivs., uses 79-14-1, uses 79-20-9 79-21-0, Ethaneperoxoic acid 79-69-6 79-92-5D, 2,2-Dimethyl-3-methylenebicyclo[2.2.1]heptane, reaction products with 2-methoxyphenol, hydrogenated 80-26-2 80-27-3 80-46-6 80-71-7 81-07-2D, 1,2-Benzisothiazol-3(2H)-one 1,1-dioxide, salts with quaternary ammonium compds., benzyl-C12-18-alkyldimethyl (1:1) 81-14-1 81-15-2 81-81-2 81-82-3 82-66-6 83-34-1 83-79-4 84-65-1, 9,10-Anthracenedione 84-66-2 84-74-2 85-91-6 87-10-5 87-17-2 87-20-7 87-22-9 87-90-1 88-04-0 88-06-2 88-14-2, 2-Furancarboxylic acid 88-84-6 89-68-9 89-78-1 89-79-2 89-83-8 90-05-1D, Phenol, 2-methoxy-, reaction products with 2,2-dimethyl-3-methylenebicyclo[2.2.1]heptane, hydrogenated 90-13-1 90-17-5 90-43-7, [1,1'-Biphenyl]-2-ol 90-43-7D, [1,1'-Biphenyl]-2-ol, chlorinated 90-87-9 91-20-3, Naphthalene, uses 91-61-2 91-64-5, 2H-1-Benzopyran-2-one 93-15-2 93-16-3 93-51-6 93-59-4, Benzenecarboperoxoic acid 93-65-2 93-69-6 93-89-0 94-13-3 94-18-8 94-26-8 94-36-0, uses 94-96-2 95-14-7, 1H-Benzotriazole 95-41-0 95-48-7, uses 96-24-2 96-29-7 97-23-4 97-24-5 97-54-1 97-77-8 98-01-1, 2-Furancarboxaldehyde, uses 98-11-3D, Benzenesulfonic acid, mono-C10-14-alkyl derivs., compds. with Me 1H-benzimidazol-2-ylcarbamate, uses 98-53-3 98-55-5 99-49-0 99-76-3 99-86-5 100-37-8 100-44-7, uses 100-51-6, Benzenemethanol, uses 100-52-7, Benzaldehyde, uses 100-73-2 100-86-7 100-89-0 100-97-0, uses 101-20-2 101-21-3 101-39-3 101-53-1 101-84-8 101-85-9 102-17-0 102-20-5 102-30-7 102-71-6D, copper complexes 102-71-6D, Triethanolamine, reaction products with 9-octadecenoic acid, di-Me sulfate-quaternized 102-98-7 103-05-9 103-26-4 103-52-6 103-82-2, Benzenoacetic acid, uses 103-95-7 104-09-6 104-21-2 104-29-0 104-53-0, Benzenepropanal 104-54-1 104-55-2 104-60-9 104-61-0 104-62-1 104-67-6 104-76-7 104-78-9 104-87-0 105-01-1 105-66-8 105-85-1 105-87-3 105-90-8 106-22-9 106-24-1 106-25-2

106-30-9 106-44-5, uses 106-46-7 106-70-7 106-72-9 106-73-0
 106-79-6 106-88-7 106-89-8, uses 107-02-8, 2-Propenal, uses
 107-21-1D, Ethylene glycol, reaction products with formaldehyde
 107-22-2, Ethanedial 107-41-5 107-43-7 107-75-5 107-95-9D,
 .beta.-Alanine, N-coco alkyl derivs. 108-16-7 108-39-4, uses
 108-64-5 108-80-5, 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione 108-88-3,
 uses 108-89-4 108-94-1, Cyclohexanone, uses 108-95-2, Phenol, uses
 108-95-2D, Phenol, polypropene derivs., uses 108-99-6 109-21-7
 109-89-7, uses 110-05-4 110-15-6, Butanedioic acid, uses 110-27-0
 110-38-3 110-41-8 110-44-1 110-58-7, 1-Pentanamine 110-62-3,
 Pentanal 110-75-8 110-86-1, Pyridine, uses 110-89-4, Piperidine,
 uses 111-11-5 111-27-3, 1-Hexanol, uses 111-30-8, Pentanedial
 111-40-0D, 1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with
 1-chlorooctane

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
 BIOL (Biological study); USES (Uses)

(bactericide combinations in detergents)

IT 111-40-0D, Diethylenetriamine, reaction products with chloroacetic acid,
 N-mono- and di-C8-18-alkyl derivs. 111-41-1D, 2-(2-
 Aminoethyl)aminoethanol, reaction with coco fatty acids, quaternized
 111-42-2, uses 111-46-6D, Diethylene glycol, reaction products with
 formaldehyde 111-61-5 111-81-9 111-82-0 111-85-3D, 1-Chlorooctane,
 reaction products with acetic acid and diethylenetriamine 111-85-3D,
 1-Chlorooctane, reaction products with N-(2-aminoethyl)-1,2-ethanediamine
 111-92-2 112-00-5 112-02-7 112-18-5 112-34-5D,
 2-(2-Butoxyethoxy)ethanol, reaction products with formaldehyde 112-38-9,
 10-Undecenoic acid 112-39-0 112-43-6, 10-Undecen-1-ol 112-45-8,
 10-Undecenal 112-53-8, 1-Dodecanol 112-54-9, Dodecanal 112-59-4
 112-61-8 112-69-6 112-72-1, 1-Tetradecanol 112-75-4 112-80-1D,
 9-Octadecenoic acid (9Z)-, reaction products with triethanolamine, di-Me
 sulfate-quaternized, uses 112-90-3 113-48-4 114-26-1 114-63-6
 115-29-7 115-31-1 115-32-2 115-71-9 116-25-6 117-18-0 117-52-2
 118-52-5 118-55-8 118-58-1 118-71-8 118-79-6 119-36-8
 119-61-9, uses 120-32-1 120-47-8 120-50-3 120-51-4 120-57-0,
 1,3-Benzodioxole-5-carboxaldehyde 120-72-9, 1H-Indole, uses 121-32-4
 121-33-5 121-44-8, uses 121-54-0 121-65-3 121-75-5 122-07-6
 122-14-5 122-18-9 122-19-0 122-34-9 122-40-7 122-42-9 122-48-5
 122-67-8 122-69-0 122-70-3 122-78-1, Benzeneacetaldehyde 122-97-4,
 Benzenepropanol 122-99-6 123-05-7 123-11-5, uses 123-29-5
 123-30-8 123-32-0 123-66-0 124-04-9, Hexanedioic acid, uses
 124-07-2, Octanoic acid, uses 124-09-4, 1,6-Hexanediamine, uses
 124-13-0, Octanal 124-19-6, Nonanal 124-22-1, 1-Dodecanamine
 124-43-6 124-65-2 124-76-5 126-06-7 126-11-4 126-15-8 126-91-0
 127-41-3 127-43-5 127-51-5 127-65-1 127-90-2 127-91-3 128-03-0
 128-04-1 128-08-5 128-09-6 129-06-6 131-11-3 131-52-2 132-27-4
 133-06-2 133-07-3 133-53-9 134-20-3 134-28-1 134-62-3 135-79-5
 136-45-8 136-53-8 136-77-6 136-85-6 137-16-6 137-26-8 137-30-4
 137-40-6 137-41-7 137-42-8 138-93-2 139-07-1 139-08-2
 140-10-3, uses 140-11-4 140-39-6 140-72-7 140-95-4 141-94-6
 142-18-7 142-59-6 142-62-1, Hexanoic acid, uses 142-71-2 143-07-7,
 Dodecanoic acid, uses 143-08-8, 1-Nonanol 143-14-6, 9-Undecenal
 143-50-0 144-55-8, Carbonic acid monosodium salt, uses 144-62-7,
 Ethanedioic acid, uses 147-71-7 148-24-3, 8-Quinololinol, uses
 148-79-8 149-30-4, 2(3H)-Benzothiazolethione 149-57-5 150-78-7
 150-84-5 151-01-9 151-21-3, uses 156-62-7 298-12-4 299-84-3
 300-76-5 302-01-2, Hydrazine, uses 330-54-1 333-41-5 334-48-5,
 Decanoic acid 359-37-5 379-52-2 404-86-4 470-43-9 470-82-6
 473-34-7 475-20-7D, reaction products with formic acid and boron
 trifluoride 488-10-8 489-86-1 498-81-7 499-83-2,
 2,6-Pyridinedicarboxylic acid 502-61-4 504-24-5, 4-Pyridinamine
 507-60-8 507-70-0 514-51-2 515-00-4 515-69-5 520-45-6 527-07-1
 532-32-1 533-74-4 534-18-9 535-89-7 536-59-4 536-60-7 538-71-6
 539-82-2 539-90-2 541-91-3 544-63-8, Tetradecanoic acid, uses
 551-92-8 556-61-6 557-08-4 576-55-6 577-11-7 582-25-2 584-79-2
 589-38-8, 3-Hexanone 589-66-2 591-12-8 597-09-1 615-62-3
 620-23-5 621-82-9, uses 624-15-7 625-51-4 626-82-4 628-63-7
 638-37-9, Butanedial 639-58-7 643-79-8, 1,2-Benzenedicarboxaldehyde

646-06-0, 1,3-Dioxolane 659-40-5 683-10-3 688-73-3D, Stannane, tributyl-, mono(naphthenoyloxy) derivs. 692-86-4 695-10-3D, 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-nortall-oil alkyl derivs.

696-59-3 699-02-5 705-86-2 706-14-9 719-96-0 731-27-1 762-26-5

770-35-4 789-02-6 821-55-6, 2-Nonanone 825-51-4 828-00-2

870-72-4 886-50-0 900-95-8 925-78-0, 3-Nonanone 929-73-7

959-55-7 971-66-4 991-42-4 996-35-0 1000-82-4 1066-30-4

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);

BIOL (Biological study); USES (Uses)

(bactericide combinations in detergents)

IT 1067-97-6 1085-12-7 1085-98-9 1111-67-7 1119-94-4 1119-97-7
 1120-24-7 1120-48-5 1121-30-8 1121-31-9 1123-85-9 1135-66-6
 1192-52-5 1205-17-0 1209-61-6 1222-05-5 1300-71-6 1303-28-2,
 Arsenic oxide (As₂O₅) 1303-86-2, Boron oxide (B₂O₃), uses 1303-96-4D,
 Borax (B₄Na₂O₇·10H₂O), reaction products with sulfuric acid 1305-78-8,
 Calcium oxide, uses 1309-48-4, Magnesium oxide (MgO), uses 1310-58-3,
 Potassium hydroxide (KOH), uses 1310-73-2, Sodium hydroxide (NaOH),
 uses 1314-13-2, Zinc oxide (ZnO), uses 1314-84-7, Zinc phosphide
 (Zn₃P₂) 1317-38-0, Copper oxide (CuO), uses 1317-39-1, Copper oxide
 (Cu₂O), uses 1319-77-3 1320-44-1 1322-14-1 1323-00-8 1327-53-3,
 Arsenic oxide (As₂O₃) 1330-43-4, Boron sodium oxide (B₄Na₂O₇)
 1331-83-5 1332-07-6 1332-65-6, Copper chloride hydroxide (Cu₂Cl(OH)₃)
 1333-53-5 1333-58-0 1333-82-0, Chromium oxide (CrO₃) 1333-83-1,
 Sodium fluoride (NaHF₂) 1334-78-7 1335-10-0 1335-12-2 1335-46-2
 1341-49-7, Ammonium fluoride ((NH₄)(HF₂)) 1405-92-1 1414-45-5, Nisin A
 1438-94-4 1446-61-3 1490-04-6 1634-02-2 1643-20-5 1696-17-9
 1715-30-6 1777-82-8 1854-23-5 1854-26-8 1875-89-4 1885-38-7
 1892-43-9 1897-45-6 1983-10-4 2016-56-0 2019-69-4 2032-65-7
 2050-08-0 2090-05-3 2104-96-3 2120-70-9 2155-70-6 2216-51-5
 2224-44-4 2244-16-8 2244-21-5 2275-23-2 2279-96-1,
 Butanediperoxoic acid 2305-25-1 2310-17-0 2372-82-9 2374-05-2
 2390-68-3 2436-90-0 2439-10-3 2445-76-3 2463-53-8, 2-Nonenal
 2491-38-5 2492-26-4 2500-83-6 2527-57-3 2527-58-4 2565-36-8
 2571-88-2 2631-40-5 2634-33-5, 1,2-Benzisothiazol-3(2H)-one
 2639-63-6 2682-20-4 2756-56-1 2782-57-2 2832-19-1 2871-78-5
 2875-41-4D, Glycine, N-(3-aminopropyl)-, N'-C10-16-alkyl derivs.,
 hydrochlorides 2893-78-9 2921-88-2 3006-10-8 3033-23-6 3064-70-8
 3090-35-5 3142-72-1 3228-02-2 3302-10-1 3313-92-6 3332-27-2
 3380-34-5 3383-96-8 3398-33-2 3547-33-9 3586-55-8 3691-35-8
 3696-28-4 3697-42-5 3710-84-7 3766-81-2 3784-03-0 3785-34-0
 3811-68-5 3811-73-2 3811-75-4 3851-97-6 3926-62-3D, Acetic acid,
 chloro-, sodium salt, reaction products with 4,5-dihydro-1H-imidazole-1-
 ethanol 2-norcocho alkyl derivs. and sodium hydroxide 3926-62-3D, Sodium
 chloroacetate, reaction products with B-C12-18 alkylmethylenediamines
 3984-22-3 4075-81-4 4080-31-3 4151-50-2 4169-04-4 4180-23-8
 4182-44-9 4191-73-5 4247-02-3 4299-07-4 4299-60-9 4317-72-0
 4317-79-7 4342-36-3 4454-05-1D, reaction products with ethanol
 4525-33-1 4574-04-3 4602-84-0 4707-47-5 4719-04-4 4724-48-5
 4824-78-6 4940-11-8 5026-62-0 5039-78-1 5153-25-3 5197-80-8
 5329-14-6, Sulfamic acid 5332-73-0 5392-40-5 5395-50-6 5437-45-6
 5454-19-3 5462-06-6 5471-51-2 5538-94-3 5538-95-4 5598-13-0
 5625-90-1 5725-96-2 5836-29-3 5915-41-3 5972-76-9 6001-64-5
 6011-99-0 6051-03-2 6152-33-6 6317-18-6 6324-78-3 6378-65-0
 6413-26-9 6440-58-0 6485-40-1 6542-37-6 6582-31-6 6834-92-0
 6843-97-6 6915-15-7 6939-35-1 6988-21-2 7080-50-4 7166-19-0
 7173-51-5 7173-62-8 7281-04-1 7287-19-6 7320-34-5 7378-99-6
 7440-22-4, Silver, uses 7440-50-8, Copper, uses 7446-20-0, Zinc
 sulfate heptahydrate 7491-20-5 7491-21-6 7492-67-3 7540-51-4
 7549-37-3 7553-56-2, Iodine, uses 7601-54-9D, Trisodium
 phosphate, chlorinated 7631-89-2 7631-90-5 7632-04-4
 7637-07-2D, Boron trifluoride, reaction products with 2-propanol and
 5-ethylidenebicyclo[2.2.1]hept-2-ene 7640-33-7 7646-85-7, Zinc
 chloride (ZnCl₂), uses 7647-01-0, Hydrochloric acid, uses 7647-15-6,
 Sodium bromide (NaBr), uses 7664-38-2, Phosphoric acid, uses
 7664-41-7, Ammonia, uses 7664-93-9, Sulfuric acid, uses 7681-49-4,
 Sodium fluoride (NaF), uses 7681-52-9 7681-55-2 7681-57-4
 7681-93-8 7696-12-0 7697-37-2, Nitric acid, uses 7699-45-8, Zinc

bromide (ZnBr₂) 7704-34-9, Sulfur, uses 7722-64-7 7722-84-1,
Hydrogen peroxide (H₂O₂), uses 7722-86-3, Peroxymonosulfuric acid
7726-95-6, Bromine, uses 7727-21-1 7733-02-0 7747-35-5 7757-81-5
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)

(bactericide combinations in detergents)

IT 7757-83-7 7758-02-3, Potassium bromide (KBr), uses 7758-19-2
7758-89-6, Copper chloride (CuCl) 7758-98-7, Sulfuric acid copper(2+)
salt (1:1), uses 7758-99-8 7775-09-9 7775-27-1 7778-39-4, Arsenic
acid (H₃AsO₄) 7778-43-0 7778-50-9 7778-54-3 7778-66-7 7779-27-3
7779-73-9 7779-78-4 7779-81-9 7782-44-7, Oxygen, uses 7782-50-5,
Chlorine, uses 7783-20-2, Sulfuric acid diammonium salt, uses
7783-90-6, Silver chloride (AgCl), uses 7786-29-0 7786-30-3, Magnesium
chloride (MgCl₂), uses 7789-09-5 7789-12-0 7789-29-9, Potassium
fluoride (K(HF₂)) 7789-33-5, Iodine bromide (IBr) 7790-28-5
7790-99-0, Iodine chloride (ICl) 7803-51-2, Phosphine 8000-41-7,
Terpineol 8007-35-0 8018-01-7 9001-37-0 9002-91-9 9003-07-0D,
Polypropylene, phenol derivs. 9003-29-6 9003-63-8 9003-99-0,
Peroxidase 9004-82-4 9004-98-2 10028-15-6, Ozone, uses 10031-43-3
10032-15-2 10043-35-3, Boric acid (H₃BO₃), uses 10049-04-4, Chlorine
oxide (ClO₂) 10058-23-8 10101-41-4 10124-37-5 10154-75-3
10187-52-7 10198-23-9 10222-01-2 10222-01-2 10235-63-9
10294-64-1 10332-33-9 10339-55-6 10345-79-6 10377-60-3
10378-23-1 10380-28-6 10453-86-8 10460-00-1 10482-56-1
10486-00-7 10543-57-4 10588-01-9 10588-15-5 10595-49-0
10605-21-7 10605-21-7D, Methyl 1H-benzimidazol-2-ylcarbamate, compds.
with benzenesulfonic acid mono-C₁₀-14-alkyl derivs. 11031-45-1, Santalol
11050-62-7 11084-85-8, Sodium hypochlorite phosphate (Na₁₃(ClO)(PO₄)₄)
11096-42-7 12008-41-2, Boron sodium oxide (B₈Na₂O₁₃) 12062-24-7
12069-69-1 12122-67-7 12124-97-9, Ammonium bromide ((NH₄)Br)
12179-04-3 12267-73-1 12280-03-4 12427-38-2 13014-03-4
13019-22-2, 9-Decen-1-ol 13052-19-2 13108-52-6 13149-79-6
13167-25-4 13197-76-7 13254-34-7 13351-61-6 13426-91-0
13435-05-7 13463-41-7 13463-67-7, Titanium oxide (TiO₂), uses
13516-27-3 13517-11-8, Hypobromous acid 13532-18-8 13590-97-1
13701-59-2 13707-65-8 13720-12-2 13755-29-8 13824-96-9
13826-83-0 13840-33-0 13863-41-7, Bromine chloride (BrCl) 13877-91-3
13980-04-6 14073-97-3 14371-10-9 14548-60-8 14576-08-0
14667-55-1 14676-61-0D, 1-Propanamine, 3-(tridecyloxy)-, branched
14762-38-0 14816-18-3 14915-37-8 14936-67-5 15323-35-0
15435-29-7 15510-55-1 15627-09-5 15630-89-4 15707-23-0
15733-22-9 15739-09-0 15809-19-5 15986-80-8 16079-88-2
16219-75-3D, 5-Ethylidenebicyclo[2.2.1]hept-2-ene, reaction products with
boron trifluoride and 2-propanol 16228-00-5 16409-43-1 16491-36-4
16752-77-5 16828-95-8 16871-71-9 16893-85-9 16919-19-0
16949-65-8 16961-83-4 17084-08-1 17342-21-1 17804-35-2
18181-70-9 18181-80-1 18205-85-1 18339-16-7 18472-51-0
18479-54-4 18479-57-7 18675-16-6 18675-17-7 18794-84-8
18829-56-6 18854-01-8 18972-56-0 19014-05-2 19093-20-0
19379-90-9 19388-87-5 19578-81-5 19766-89-3 19819-98-8
19870-74-7 20013-73-4 20018-09-1 20543-04-8 20545-92-0
20662-57-1 20679-58-7 20834-59-7 20859-73-8, Aluminum phosphide
(AlP) 21129-27-1 21145-77-7 21564-17-0 21757-82-4 21834-92-4
22009-37-6 22205-45-4, Copper sulfide (Cu₂S) 22221-10-9 22248-79-9
22781-23-3 22882-89-9 22882-91-3 22936-75-0 22981-54-0
23031-36-9 23495-12-7 23560-59-0 23564-05-8 23726-92-3
23726-94-5 23787-90-8 24019-05-4 24048-13-3 24111-17-9
24124-25-2 24291-45-0 24634-61-5 24720-09-0 24851-98-7
25068-14-8 25155-18-4 25155-29-7 25167-82-2 25225-10-9
25254-50-6 25265-71-8 25304-14-7 25377-70-2 25628-84-6
25655-41-8 25988-97-0 26002-80-2 26062-79-3 26172-55-4
26248-98-6 26354-18-7 26530-03-0 26530-20-1 26545-49-3
26617-87-8 26635-93-8 26781-23-7 27083-27-8 27176-87-0
27236-65-3 27253-29-8 27323-41-7 27697-50-3 28069-74-1
28159-98-0 28219-61-6
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);
BIOL (Biological study); USES (Uses)

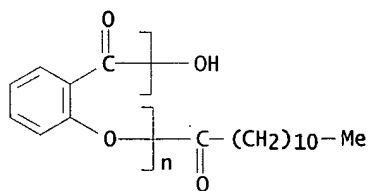
(bactericide combinations in detergents)					
IT	28302-36-5	28387-62-4	28434-00-6	28434-01-7	28558-32-9
	28645-51-4,	Oxacycloheptadec-10-en-2-one	28728-61-2	28772-56-7	
	28777-01-7	28805-58-5	29232-93-7	29350-73-0	29463-06-7
	29873-30-1	29873-33-4	29973-13-5	30007-47-7	30388-01-3
	30560-19-1	30772-79-3	31075-24-8	31195-95-6	31218-83-4
	31501-11-8	31512-74-0	31906-04-4	32276-75-8	32289-58-0
	32388-55-9	33089-61-1	33704-61-9	33939-64-9	33972-49-5
	34375-28-5	34395-72-7	34413-35-9	34681-10-2	34911-46-1
	35109-57-0	35206-70-3	35285-68-8	35285-69-9	35367-38-5
	35445-70-6	35554-44-0	35575-96-3	35691-65-7	35950-52-8
	36059-35-5	36362-09-1	36631-23-9	36734-19-7	37139-99-4
	37228-06-1	37306-10-8,	Chromium copper boride	38083-17-9	38260-54-7
	38460-95-6D,	10-Undecenoyl chloride,	reaction products with protein		
	hydrolyzates,	potassium salts	38465-60-0	38664-03-8	38811-14-2
	39236-46-9	39300-45-3	39354-45-5	39515-40-7	39650-63-0,
	1H-Benzimidazole-2-pentanamine	39660-17-8	39758-90-2	40027-80-3	
	40188-41-8	40596-69-8	41096-46-2	41877-16-1	42370-07-0
	42436-34-0	42534-61-2	43143-11-9	44992-01-0	46830-22-2
	46917-07-1	50542-90-0	50650-76-5	51015-28-2	51015-29-3
	51026-28-9	51200-87-4	51566-62-2	51580-86-0	51630-58-1
	52299-20-4	52304-36-6	52315-07-8	52513-11-8	52645-53-1
	52684-21-6	52684-23-8	52918-63-5	53082-58-9	53488-14-5
	53720-80-2	53727-58-5	54262-78-1	54406-48-3	54427-07-5, Copper
	boride	54464-57-2	54720-15-9	54779-21-4	55142-08-0
	55566-30-8	55722-59-3	55965-84-9	56073-07-5	56073-10-0
	56148-34-6	56148-37-9	56148-40-4	56289-76-0	56427-82-8
	56709-13-8	56996-62-4,	Glokil 77	57006-76-5	57382-78-2
	57503-06-7	57520-17-9	57576-09-7	57837-19-1	58206-95-4
	58249-25-5	58769-20-3	59323-76-1	59324-17-3	59355-53-2, Citrex S 5
	60114-62-7D,	1-Propanaminium,	3-amino-N-(carboxymethyl)-N,N-dimethyl-,		
	N-coco acyl derivs.,	inner salts	60168-88-9	60207-31-0	60207-90-1
	60239-68-1	60568-05-0	60736-58-5	60763-40-8	60784-31-8
	60812-23-9	61692-81-7	61692-84-0	61702-91-8	61842-86-2
	62476-84-0D,	Guanidine, N,N''-1,3-propanediylbis-,	N-coco alkyl derivs.,		
	acetates	62755-21-9	63085-03-0	63333-35-7	63500-71-0
	64359-81-5	64440-88-6	64628-44-0	64665-57-2	64988-06-3
	65059-43-0	65289-97-6	65289-98-7	65290-00-8	65400-98-8
	65630-22-0	65694-09-9	65733-16-6	65733-18-8	66062-78-0
	66063-61-4	66065-55-2D,	Benzenemethanaminium,	N-(3-aminopropyl)-N,N-	
	dimethyl-,	chloride,	N-coco acyl derivs.	66091-24-5D,	1-Propanaminium,
	3-amino-N-ethyl-N,N-dimethyl-,	N-lanolin acyl derivs.,	Et sulfates		
	66204-44-2	66215-27-8	66789-18-2	66841-25-6	67100-72-5
	67171-34-0	67185-04-0	67228-83-5	67485-29-4	67508-69-4
	67633-95-8	67633-98-1	67633-99-2	67634-01-9	67634-12-2
	67634-14-4	67634-15-5	67634-25-7	67634-26-8	67747-09-5
	67772-01-4	67801-33-6	67801-44-9	67801-47-2	67845-46-9
	67846-68-8	68085-85-8	68134-42-9	68155-66-8	68155-67-9
	68188-98-7	68213-85-4	68224-19-1	68359-37-5	68480-15-9
	68480-16-0	68527-77-5	68527-84-4	68738-96-5	68797-57-9
	68890-66-4	68901-15-5	68929-85-1	68959-20-6	68991-96-8
	68991-97-9	69094-18-4	69153-35-1	70161-44-3	70680-04-5
	70680-05-6	70754-17-5	70775-75-6	70788-30-6	70799-70-1
	70862-65-6	71297-57-9	71297-58-0	71297-59-1	71646-36-1
	72089-08-8	72490-01-8	72963-72-5	73264-51-4	73337-96-9D,
	.beta.-Alanine,	N-(2-aminoethyl)-N-(2-hydroxyethyl)-,	N-C8-18-acyl derivs.		
	RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);				
	BIOL (Biological study); USES (Uses)				
(bactericide combinations in detergents)					
IT	74774-67-7	75033-25-9	75147-23-8	76382-10-0D,	.beta.-Alanine,
	N-(3-aminopropyl)-,	N-coco alkyl derivs.	76653-57-1	76653-58-2	
	76733-35-2	76749-58-1	76902-90-4	77492-36-5	77492-37-6
	77492-44-5	78144-21-5	78491-02-8	78587-05-0	79267-18-8
	79267-19-9	79267-20-2	79267-21-3	79267-22-4	81335-77-5
	81412-43-3,	Tridemorph	81741-28-8	81786-73-4	81786-74-5
	81867-37-0	82007-94-1	82432-76-6	82432-77-7	82432-78-8
	82633-79-2	82657-04-3	82790-32-7	82790-35-0	82790-36-1

RL: TEM (Technical or engineered material use); USES (Uses)
(household bleaching agents for laundry use)

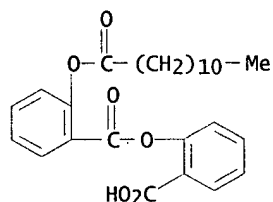
~~L88 ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN~~
ACCESSION NUMBER: 1998:147028 HCAPLUS
DOCUMENT NUMBER: 128:231869
TITLE: Bleaching detergents with high bleaching power
INVENTOR(S): Ogura, Nobuyuki; Ozaki, Kazuyoshi; Yamaguchi, Michiyoshi; Aoyagi, Muneo
PATENT ASSIGNEE(S): Kao Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10060494	A2	19980303	JP 1996-218476	19960820

PRIORITY APPLN. INFO.: JP 1996-218476 19960820
OTHER SOURCE(S): MARPAT 128:231869
AB The detergents, having good bleaching power for hydrophilic and lipophilic stains, contain (a) inorg. peroxides, (b) surfactants, (c) bleach activators R1C02(C6H4C02)nM (I), and (d) bleach activators R2C02C6H4C02M [R1, R2 = C1-19 alkyl or alkenyl, (un)substituted aryl; M = H, cation; n = 2-10] with wt. ratios of c/d 1/1000-1000/1, and (c + d)/a 1/1-1/1000. Thus, a detergent contained Na percarbonate 10, Na alkylbenzenesulfonate 5, I (R1 = p-C7H15; M = H; 24.7% n = 1, 62.8% n = 2, 5.5% n = 3, 7.0% n > 3) 5, [(OH)2PO]2CMeOH 1 part, and balance amt. of Na2CO3.
IT 194099-33-7P 204701-90-6P 204701-91-7P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(bleach activators; bleaching detergents contg. bleach activators with high bleaching power)
RN 194099-33-7 HCAPLUS
CN Poly(oxy-1,2-phenylenecarbonyl), .alpha.-(1-oxododecyl)-.omega.-hydroxy-(9CI) (CA INDEX NAME)



RN 204701-90-6 HCAPLUS
CN Benzoic acid, 2-[(1-oxododecyl)oxy]-, 2-carboxyphenyl ester (9CI) (CA INDEX NAME)



RN 204701-91-7 HCAPLUS

(granular and soln. form; non-caustic cleaning compn. comprising peroxygen compd. and silicate in free-flowing particulate form for cleaning food prepn. surfaces)

IT Chelating agents

(non-caustic cleaning compn. comprising peroxygen compd. and silicate in free-flowing particulate form for cleaning food prepn. surfaces)

IT Carboxylic acids, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(non-caustic cleaning compn. comprising peroxygen compd. and silicate in free-flowing particulate form for cleaning food prepn. surfaces)

IT Silicates, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(sesqui-; non-caustic cleaning compn. comprising peroxygen compd. and silicate in free-flowing particulate form for cleaning food prepn. surfaces)

IT Polyphosphoric acids

RL: TEM (Technical or engineered material use); USES (Uses)

(sodium salts, builder; non-caustic cleaning compn. comprising peroxygen compd. and silicate in free-flowing particulate form for cleaning food prepn. surfaces)

IT 144-55-8, Sodium bicarbonate, uses 497-19-8, Sodium carbonate, uses 533-96-0, Sodium sesquicarbonate 7558-79-4, Disodium phosphate 7558-80-7, Monosodium phosphate 7757-82-6, Sodium sulfate, uses 7758-29-4, Sodium tripolyphosphate

RL: TEM (Technical or engineered material use); USES (Uses)

(builder; non-caustic cleaning compn. comprising peroxygen compd. and silicate in free-flowing particulate form for cleaning food prepn. surfaces)

IT 60-00-4, uses 563-69-9D, Percarbonic acid, salts 4896-78-0, N-Hydroxyethylenediaminetriacetic acid 12674-33-8D, Perboric acid, salts 15593-90-5, Metasilicate

RL: TEM (Technical or engineered material use); USES (Uses)

(non-caustic cleaning compn. comprising peroxygen compd. and silicate in free-flowing particulate form for cleaning food prepn. surfaces)

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1998:256090 HCAPLUS

DOCUMENT NUMBER: 129:5886

TITLE: Household bleaching agents for laundry use

INVENTOR(S): Yamaguchi, Yukiyo; Furukawa, Masakazu; Hanada, Miyuki; Aoyagi, Munee; Yamada, Hiroyuki

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10110194	A2	19980428	JP 1996-267314	19961008
PRIORITY APPLN. INFO.:			JP 1996-267314	19961008

OTHER SOURCE(S): MARPAT 129:5886

AB The agents exhibiting superior bleaching power to various fibers comprise (a) percarbonate and/or perborate salts which release H₂O₂ in water 20-80, (b) bleaching activators RC₂O₂C₆H₄Y (R = C₈-15 alkyl; Y = carboxylic, sulfonic acids or salts) 0.1-15, (c) cryst. alkali metal silicate or its hydrate with ion exchange capacity (ICC) .gtoreq.100 mg CaCO₃/g 0.1-5, and (d) NaCO₃ 1-70%. A compn. contained Na percarbonate 40, alkali metal silicate (ICC 305 mg CaCO₃/g) 3, C₁₁H₂₃O₂C₆H₄-p-SO₃Na 7, succinic acid 0.2, Na alkylbenzenesulfonate 1, polyethylene glycol 1, Na alkylsulfate 0.8, Na polyacrylate 1, Sokalan CP5 1, protease 1, and Na₂CO₃ the balance, exhibiting bleaching detergency 65%.

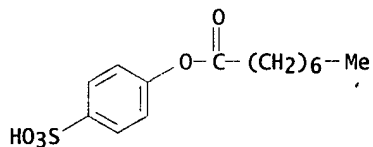
IT 89740-12-5P 89740-13-6P 180479-24-7P

JP 10110194
JP 200267314

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(household bleaching agents for laundry use)

RN 89740-12-5 HCAPLUS

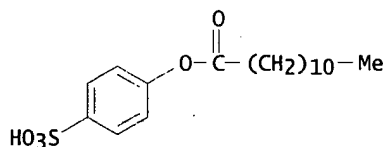
CN Octanoic acid, 4-sulfophenyl ester, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 89740-13-6 HCAPLUS

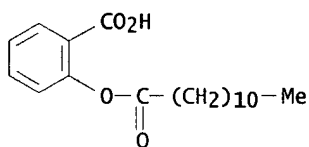
CN Dodecanoic acid, 4-sulfophenyl ester, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 180479-24-7 HCAPLUS

CN Benzoic acid, 2-[(1-oxododecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D007-54

ICS C11D003-34; C11D003-395; C11D003-60; C11D007-60; C11D003-39;
C11D003-20; C11D003-08; C11D003-10; C11D007-18; C11D007-26;
C11D007-34; C11D007-14; C11D007-12

CC 46-5 (Surface Active Agents and Detergents)

ST household bleaching agent laundry; alkali metal silicate bleaching
detergent; sodium percarbonate bleaching detergent

IT Detergents

(bleaching; household bleaching agents for laundry use)

IT Bleaching agents

(household bleaching agents for laundry use)

IT 1343-98-2DP, Silicic acid, alkali salts 89740-12-5P

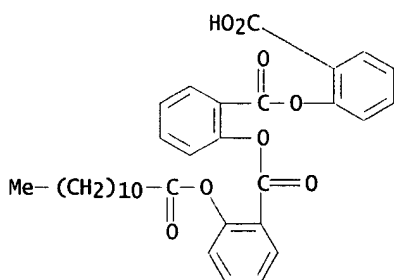
89740-13-6P 160541-71-9P 180479-24-7P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)

(household bleaching agents for laundry use)

IT 497-19-8, Sodium carbonate, uses 15630-89-4, Sodium percarbonate

CN Benzoic acid, 2-[[2-[(1-oxododecyl)oxy]benzoyl]oxy]-, 2-carboxyphenyl ester (9CI) (CA INDEX NAME)



IT 11138-47-9, Sodium perborate

RL: TEM (Technical or engineered material use); USES (Uses)
(bleaching detergents contg. bleach activators with high bleaching power)

RN 11138-47-9 HCAPLUS

CN Perboric acid, sodium salt (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IC ICM C11D010-02

ICS C11D010-02; C11D003-10; C11D003-395; C11D001-12; C11D001-62;
C11D001-88

CC 46-5 (Surface Active Agents and Detergents)

ST hydrophilic lipophilic textile stain bleaching detergent; bleach activator
sodium percarbonate detergent

IT Surfactants

Textiles

(bleaching detergents contg. bleach activators with high bleaching power)

IT Detergents

(bleaching; bleaching detergents contg. bleach activators with high bleaching power)

IT 194099-32-6P 194099-33-7P 204701-89-3P 204701-90-6P
204701-91-7P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(bleach activators; bleaching detergents contg. bleach activators with high bleaching power)

IT 11138-47-9, Sodium perborate 15630-89-4, Sodium percarbonate

RL: TEM (Technical or engineered material use); USES (Uses)
(bleaching detergents contg. bleach activators with high bleaching power)

IT 98-11-3D, Benzenesulfonic acid, alkyl derivs., sodium salts, uses

9002-92-0, Polyethylene glycol dodecyl ether 19309-23-0

RL: TEM (Technical or engineered material use); USES (Uses)

(surfactants; bleaching detergents contg. bleach activators with high bleaching power)

L88 ANSWER 19 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1996:537432 HCAPLUS

DOCUMENT NUMBER: 125:171588

TITLE: Bleaching detergent compositions with improved blood stain-removal effect

INVENTOR(S): Ogura, Nobuyuki; Aoyanagi, Muneo; Yamaguchi, Yukyoshi; Tsucha, Shigemi

PATENT ASSIGNEE(S): Kao Corp, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

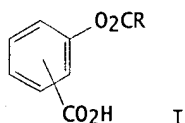
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

PATENT ASSIGNEE(S): Schuelke und Mayr G.m.b.H., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 16 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2701133	A1	19780720	DE 1977-2701133	19770113
DE 2701133	B2	19781026		
DE 2701133	C3	19850829		
AT 7707857	A	19790415	AT 1977-7857	19771103
CH 631869	A	19820915	CH 1977-13882	19771114
FI 60098	B	19810831	FI 1977-3531	19771122
FI 60098	C	19811210		
BE 861167	A1	19780316	BE 1977-182908	19771124
NO 7704045	A	19780714	NO 1977-4045	19771125
NO 145707	B	19820208		
NO 145707	C	19820526		
FR 2377203	A1	19780811	FR 1977-36033	19771130
FR 2377203	B1	19800822		
SE 7714473	A	19780714	SE 1977-14473	19771220
SE 440846	B	19850826		
SE 440846	C	19851205		
DK 7800174	A	19780714	DK 1978-174	19780113
DK 154533	B	19881128		
DK 154533	C	19890501		
NL 7800463	A	19780717	NL 1978-463	19780113
GB 1566671	A	19800508	GB 1978-1360	19780113
			DE 1977-2701133	19770113

PRIORITY APPLN. INFO.:
 GI



AB Storage-stable compns. which dissolve in H₂O to give solns. with high antimicrobial activity contain arom. acyloxycarboxylic acids I (R = HO-, alkoxy-, acyloxy-, carboxy- or halo-substituted lower alkyl, or HO-, halo-, alkyl- or alkoxy-substituted Ph) or their H₂O-sol. alkali, alk. earth, ammonium, or quaternary ammonium salts, H₂O₂-releasing compds. and inert fillers. The mol. ratio of I to H₂O₂-releasing compd. ranges from 1:10 to 10:1. Org. and inorg. salts can also be added to det. and stabilize the pH of the mixt. For example, a compn. comprising 1.8 g acetylsalicylic acid [50-78-2] and 3.0 g Na perborate dissolved in .1toreq.200 g H₂O, and a 2nd compn. comprising 2.4 g O-benzoylsalicylic acid [4578-66-9] and 3.0 g Na perborate in .1toreq.200 g H₂O showed prolonged broad spectrum antimicrobial activity, even against fungi, and good serum protein loading capacity.

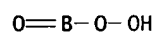
IT 7632-04-4

RL: BIOL (Biological study)

(antimicrobial compns. contg. arom. acyloxycarboxylic acids and)

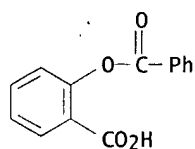
RN 7632-04-4 HCAPLUS

CN Perboric acid (HBO(O₂)), sodium salt (9CI) (CA INDEX NAME)



Na

IT 4578-66-9
 RL: BIOL (Biological study)
 (antimicrobial compns. contg. sodium **perborate** and)
 RN 4578-66-9 HCAPLUS
 CN Benzoic acid, 2-(benzoyloxy)- (9CI) (CA INDEX NAME)

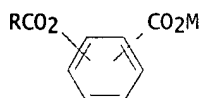


IC A61L013-00
 CC 63-8 (Pharmaceuticals)
 ST antimicrobial arom acyloxycarboxylic acid; **perborate** arom
 acyloxycarboxylate antimicrobial; peroxide arom acyloxycarboxylate
 antimicrobial
 IT Bactericides, Disinfectants and Antiseptics
 Fungicides and Fungistats
 (arom. acyloxycarboxylic acid-sodium **perborate** compns. as)
 IT 7632-04-4
 RL: BIOL (Biological study)
 (antimicrobial compns. contg. arom. acyloxycarboxylic acids and)
 IT 50-78-2 4578-66-9
 RL: BIOL (Biological study)
 (antimicrobial compns. contg. sodium **perborate** and)

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FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

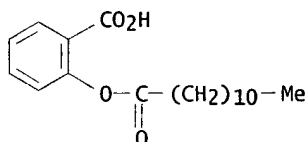
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08143896	A2	19960604	JP 1994-289844	19941124
PRIORITY APPLN INFO.:			JP 1994-289844	19941124
OTHER SOURCE(S):		MARPAT 125:171588		
GI				



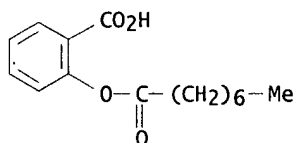
AB A laundry detergent compn. with improved ability of removing blood stain / comprises (1) 2-30 wt.% of potassium **alkylbenzenesulfonate** with C10-16 alkyl chain, (2) 0.5-30 wt.% of coated sodium percarbonate, (3) 0.1-10 wt.% org. peracid precursor I (R = C1-21 alkyl, alkenyl, alkyl-substituted aryl; M = H, org. or inorg. cation), optionally, (4) 2-30 wt.% of potassium .alpha.-olefin sulfonates, (5) cryst. alkali metal silicates, and (6) aluminosilicate.

IT 169755-63-9 180479-25-8
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(granules, mixt. with polyethylene glycol; bleaching detergent compns. with improved blood stain-removal effect)

RN 169755-63-9 HCAPLUS
CN Benzoic acid, 2-[(1-oxododecyl)oxy]- (9CI) (CA INDEX NAME)



RN 180479-25-8 HCAPLUS
CN Benzoic acid, 2-[(1-oxooctyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D003-395
ICS C11D001-22; C11D003-20; D06L003-02
CC 46-6 (Surface Active Agents and Detergents)
ST **alkylbenzenesulfonate** potassium detergent bleaching; sodium percarbonate detergent bleaching; peracid org detergent bleaching; blood stain bleaching detergent
IT Bleaching agents
(org. peracid precursors and coated percarbonates; bleaching detergent compns. with improved blood stain-removal effect)
IT Sulfonates

RL: TEM (Technical or engineered material use); USES (Uses)
(1-alkene, C12-22, potassium salts; bleaching detergent compns. with improved blood stain-removal effect)

IT Zeolites, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(4A, bleaching detergent compns. with improved blood stain-removal effect)

IT Detergents

(laundry, bleaching detergent compns. with improved blood stain-removal effect)

IT 934-55-4D, Potassium benzenesulfonate, C12-14 alkyl-substituted
1344-09-8, Sodium silicate 13870-28-5, Sks 6 25322-68-3D, Polyethylene glycol, alkyl ethers

RL: TEM (Technical or engineered material use); USES (Uses)
(bleaching detergent compns. with improved blood stain-removal effect)

IT 3313-92-6

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(coated by borate or silicate; bleaching detergent compns. with improved blood stain-removal effect)

IT 25322-68-3, Polyethylene glycol

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(granules, mixt. with org. peracid precursors; bleaching detergent compns. with improved blood stain-removal effect)

IT 133864-82-1 169755-63-9 180479-25-8

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(granules, mixt. with polyethylene glycol; bleaching detergent compns. with improved blood stain-removal effect)

IT 7775-19-1, Sodium metaborate 10043-35-3, Boric acid, uses 12627-13-3, Silicate

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(percarbonate coated by; bleaching detergent compns. with improved blood stain-removal effect)

L88 ANSWER 20 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1996:529581 HCAPLUS

DOCUMENT NUMBER: 125:171558

TITLE: Storage-stable powdered bleaching laundry detergent compositions

INVENTOR(S): Yamaguchi, Yukyoshi; Hanada, Yoshuki; Tsucha, Shigemi; Ogura, Nobuyuki; Aoyanagi, Muneo

PATENT ASSIGNEE(S): Kao Corp, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08143895	A2	19960604	JP 1994-289846	19941124
PRIORITY APPLN. INFO.:			JP 1994-289846	19941124

OTHER SOURCE(S): MARPAT 125:171558

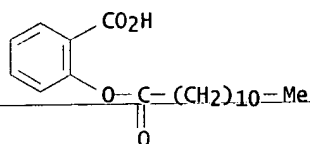
AB The title compns. contain RCO₂-o-C₆H₄X (R = C1-18 alkyl, alkenyl, alkanoyloxymethyl, Ph; X = anion salt), and Na percarbonate coated by borate ion-contg. coating agents, such as Na metaborate or Na orthoborate.

IT 180479-24-7 180479-25-8 180479-26-9

RL: TEM (Technical or engineered material use); USES (Uses)
(storage-stable powd. bleaching laundry detergent compns.)

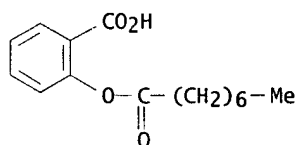
RN 180479-24-7 HCAPLUS

CN Benzoic acid, 2-[(1-oxododecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



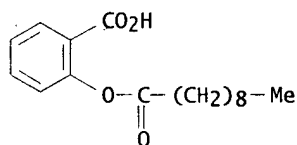
● Na

RN 180479-25-8 HCAPLUS
CN Benzoic acid, 2-[(1-oxooctyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 180479-26-9 HCAPLUS
CN Benzoic acid, 2-[(1-oxodecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D003-39
ICS C11D003-395; C11D007-54
ICI C11D007-54, C11D007-34, C11D007-26, C11D007-18, C11D007-14
CC 46-5 (Surface Active Agents and Detergents)
ST storage stability powder bleaching detergent; sodium percarbonate powder bleaching detergent; alkylbenzenesulfonate powder bleaching detergent
IT Bleaching agents
(storage-stable powd. bleaching laundry detergent compns.)
IT Aluminosilicates, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(storage-stable powd. bleaching laundry detergent compns.)
IT Zeolites, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(4A, storage-stable powd. bleaching laundry detergent compns.)
IT Detergents
(laundry, granular, storage-stable powd. bleaching laundry detergent compns.)
IT 7775-19-1, Sodium metaborate 14312-40-4, Sodium orthoborate
RL: TEM (Technical or engineered material use); USES (Uses)
(coatings; storage-stable powd. bleaching laundry detergent compns.)
IT 108-95-2, Phenol, reactions 112-16-3, Lauroyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(storage-stable powd. bleaching laundry detergent compns.)
IT 609-46-1P, o-Hydroxybenzenesulfonic acid
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(storage-stable powd. bleaching laundry detergent compns.)

IT 161636-99-3P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(storage-stable powd. bleaching laundry detergent compns.)

IT 98-11-3D, Benzenesulfonic acid, alkyl derivs., sodium salts 15630-89-4,
Sodium percarbonate 169283-93-6 180479-24-7

180479-25-8 180479-26-9

RL: TEM (Technical or engineered material use); USES (Uses)
(storage-stable powd. bleaching laundry detergent compns.)

L88 ANSWER 21 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1995:243782 HCAPLUS

DOCUMENT NUMBER: 122:191070

TITLE: Bleaching compositions with high bleaching power and good storage stability

INVENTOR(S): Matsunaga, Satoshi; Myamae, Yoshitaka; Inonami, Mieko

PATENT ASSIGNEE(S): Lion Corp, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

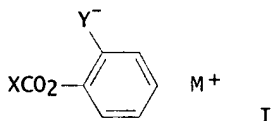
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06248296	A2	19940906	JP 1993-63170	19930226
PRIORITY APPLN. INFO.:			JP 1993-63170	19930226
OTHER SOURCE(S):		MARPAT 122:191070		

GI



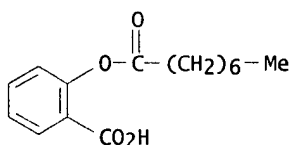
AB The title compns. contain (a) O-based peroxides and (b) org. peracid precursors I [X = C1-18 alkyl, alkenyl, alkanoyloxymethyl, Ph; Y- = anionic group, e.g., CO2-, SO3-, SO4-, PO4-; M = H, cation]. Thus, 5% I (X = Me, Y = CO2, M = H) was mixed with .alpha.-sulfofatty acid Me ester Na salt 10, Na .alpha.-olefin sulfonate 10, Na alkylbenzenesulfonate 10, zeolite 20, Na silicate 4, an enzyme 0.5, Na percarbonate 10, and Na2CO3 to 100% to give a bleaching agent with good storage stability, which when used to bleaching black tea-dyed cloths showed bleaching ratio 50%.

IT 70424-62-3

RL: TEM (Technical or engineered material use); USES (Uses)
(bleaching compns. and bleaching agents contg. peroxides and benzenecarboxylate salts with good storage stability and high bleaching power)

RN 70424-62-3 HCAPLUS

CN Benzoic acid, 2-[(1-oxooctyl)oxy]- (9CI) (CA INDEX NAME)

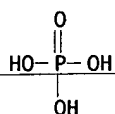


IC ICM C11D007-54
ICS C11D003-395; D06L003-02
CC 46-5 (Surface Active Agents and Detergents)
ST bleaching compn peroxide benzenecarboxylate salt; storage stable bleaching
compn peroxide
IT Bleaching agents
(bleaching compns. and bleaching agents contg. peroxides and
benzenecarboxylate salts with good storage stability and high bleaching
power)
IT Peroxides, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(bleaching compns. and bleaching agents contg. peroxides and
benzenecarboxylate salts with good storage stability and high bleaching
power)
IT 50-78-2 3313-92-6, Sodium percarbonate 5299-80-9 70424-62-3
161636-97-1 161636-98-2 161636-99-3 161637-00-9 161637-01-0
RL: TEM (Technical or engineered material use); USES (Uses)
(bleaching compns. and bleaching agents contg. peroxides and
benzenecarboxylate salts with good storage stability and high bleaching
power)

L88 ANSWER 22 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN

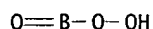
ACCESSION NUMBER: 1994:633512 HCAPLUS
DOCUMENT NUMBER: 121:233512
TITLE: Preparation of particles containing water-insoluble
organic peroxy acid for use in laundry detergents
INVENTOR(S): Chapman, Benjamin Edgar; Gabriel, Steven Matthew;
Boucher, Jeffrey Edward; Strauss, Daniel Lewis
PATENT ASSIGNEE(S): The Procter and Gamble Co., USA
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 592033	A1	19940413	EP 1993-202780	19930928
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CA 2107450	AA	19940408	CA 1993-2107450	19930930
JP 06212194	A2	19940802	JP 1993-276069	19931007
US 5536435	A	19960716	US 1993-157494	19931123
PRIORITY APPLN. INFO.:			US 1992-957578	19921007
OTHER SOURCE(S): MARPAT 121:233512				
AB A substantially water-insol. peroxy acid such as Me(CH ₂) ₈ NHCO(CH ₂) ₄ C(O)OOH is mixed with a peroxy acid-stable, water-sol. surfactant such as an alkylbenzenesulfonate and with a cryst. peroxy acid-compatible material (e.g., Na ₂ SO ₄), and the mixt. is formed into particles which show good soly./dispersibility in water and are useful in laundry detergents.				
IT 7601-54-9, Sodium phosphate 7632-04-4, Sodium perborate RL: USES (Uses) (granules contg. water-insol. peroxy acid bleach and, water-dispersible)				
RN 7601-54-9 HCAPLUS				
CN Phosphoric acid, trisodium salt (8CI, 9CI) (CA INDEX NAME)				



●3 Na

RN 7632-04-4 HCAPLUS
 CN Perboric acid (HBO(02)), sodium salt (9CI) (CA INDEX NAME)



⊙ Na

IC ICM C11D003-39
 CC 46-5 (Surface Active Agents and Detergents)
 ST bleach peroxycarboxylic acid dispersibility soly; peroxyadipic acid
 nonylamide bleach dispersibility; laundry detergent bleach
 peroxycarboxylic; alkylbenzenesulfonate peroxy acid bleach dispersibility;
 sulfate peroxy acid bleach dispersibility; dispersant peroxy acid bleach
 laundering
 IT Dispersing agents
 (granules contg. water-insol. peroxycarboxylic acid bleach and, for
 detergents)
 IT **Surfactants**
 (granules contg. water-insol. peroxycarboxylic acid bleach and,
 water-dispersible)
 IT Granulation
 (of water-insol. peroxycarboxylic acid bleach, for detergents)
 IT Bleaching agents
 (peroxycarboxylic acids, water-insol., water-dispersible granules
 contg.)
 IT Detergents
 (laundry, peroxycarboxylic acid bleach for, water-insol., granules
 contg.)
 IT **Carboxylic acids, uses**
 RL: USES (Uses)
 (peroxy, bleaching agents, water-insol., water-dispersible granules
 contg.)
 IT 66280-55-5, Diperoxydodecanedioic acid 104788-63-8, 6-Nonylamino-6-
 oxoperoxyacaproic acid 111875-82-2, 4-Nonylamino-4-oxoperoxybutyric acid
 116710-02-2 131651-53-1 131651-54-2 131651-55-3 131651-56-4
 158382-96-8
 RL: USES (Uses)
 (bleaching agents, water-insol., water-dispersible granules contg.)
 IT 127-09-3, Sodium acetate 556-63-8, Lithium formate 7601-54-9,
 Sodium phosphate 7632-04-4, Sodium perborate 7757-82-6, Sodium
 sulfate, uses 7779-88-6, Zinc nitrate 10377-48-7, Lithium sulfate
 15475-67-9, Sodium phosphite
 RL: USES (Uses)
 (granules contg. water-insol. peroxy acid bleach and,
 water-dispersible)

L88 ANSWER 23 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1989:38749 HCAPLUS
 DOCUMENT NUMBER: 110:38749
 TITLE: Phenoxyacetate esters, perhydrolysis/bleaching systems
 using them, the resultant phenoxyperacetic acids, and
 related processes

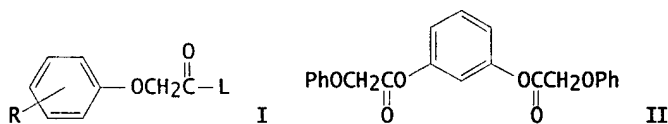
INVENTOR(S): Zielske, Alfred G.; Fong, Ronald A.
 PATENT ASSIGNEE(S): Clorox Co., USA
 SOURCE: Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

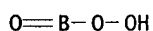
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 267048	A2	19880511	EP 1987-309844	19871106
EP 267048	A3	19900103		
EP 267048	B1	19920603		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 4859800	A	19890822	US 1987-45197	19870430
AU 8780829	A1	19880519	AU 1987-80829	19871105
AU 599162	B2	19900712		
JP 63152357	A2	19880624	JP 1987-278432	19871105
JP 10025268	A2	19980127	JP 1997-77865	19871105
AT 76869	E	19920615	AT 1987-309844	19871106
ES 2038189	T3	19930716	ES 1987-309844	19871106
US 4956117	A	19900911	US 1989-353970	19890519
US 5049305	A	19910917	US 1990-543344	19900625

PRIORITY APPLN. INFO.:
 US 1986-927856 19861106
 US 1987-45197 19870430
 JP 1987-278432 19871105
 EP 1987-309844 19871106
 US 1989-353970 19890519

OTHER SOURCE(S): CASREACT 110:38749; MARPAT 110:38749
 GI



- AB A perhydrolysis system, useful for in situ generation of peroxy acids and thus for bleaching compns., consists of phenoxyacetate precursors I (R1 = H, C1-5 alkyl; L = group having conjugate acid with aq. pKa = 5-13) and a peroxygen source. Esterification of phenoxyacetyl chloride with resorcinol in THF contg. pyridine at 60.degree. gave the bis(phenoxyacetate) II. In an expt. (0.02 M carbonate buffer, pH = 10.5, 21.degree., 2 equiv peroxide source per ester group, 14 ppm active O theor.), II gave 97% perhydrolysis in 5 min, vs. 10% for a resorcinol deriv. without an .alpha.-phenoxy group.
- IT 10332-33-9, Sodium perborate monohydrate 10486-00-7, Sodium perborate tetrahydrate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (perhydrolysis by, of phenoxyacetate derivs.)
- RN 10332-33-9 HCAPLUS
- CN Perboric acid (HBO(02)), sodium salt, monohydrate (9CI) (CA INDEX NAME)

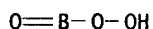


Na

H₂O

RN 10486-00-7 HCAPLUS

CN Perboric acid (HBO(02)), sodium salt, tetrahydrate (9CI) (CA INDEX NAME)



● Na

4 H₂O

IC ICM C07C179-10

ICS C07C178-00; C07C069-708; C07C143-44; C07C131-00; C07D207-46

CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 40

ST phenoxyacetate prepn bleaching agent; perhydrolysis phenoxyacetate;
peracetic acid phenoxy prepn bleach

IT Hydrolysis

(of phenoxyacetate esters, in bleaching compns.)

IT Bleaching agents

(phenoxyacetates as precursors for)

IT Carboxylic acids, preparation

RL: SPN (Synthetic preparation); PREP (Preparation)

(peroxy, prepn. of, by hydrolysis of phenoxyacetates, in bleaching compns.)

IT 701-99-5, Phenoxyacetyl chloride

RL: RCT (Reactant); RACT (Reactant or reagent)

(esterification of, in prepn. of bleaching agent precursors)

IT 98-67-9D, p-Hydroxybenzenesulfonic acid, alkali metal salt

RL: RCT (Reactant); RACT (Reactant or reagent)

(esterification of, with phenoxyacetic acids)

IT 96-29-7, Methyl ethyl ketoxime 108-46-3, Resorcinol, reactions

127-06-0, Acetone oxime

RL: RCT (Reactant); RACT (Reactant or reagent)

(esterification of, with phenoxyacetyl chloride)

IT 98-54-4, 4-tert-Butylphenol

RL: RCT (Reactant); RACT (Reactant or reagent)

(etherification of, with chloroacetic acid)

IT 79-11-8, Chloroacetic acid, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(etherification of, with tert-butylphenol)

IT 1313-60-6, Sodium peroxide 10332-33-9, Sodium perborate

monohydrate 10486-00-7, Sodium perborate tetrahydrate

16884-59-6 18278-90-5 35220-04-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(perhydrolysis by, of phenoxyacetate derivs.)

IT 118327-90-5 118327-91-6 118327-92-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(perhydrolysis of)

IT 1798-04-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(prepn. and esterification of, with hydroxybenzenesulfonate)

IT 99855-39-7P 118327-86-9P 118327-87-0P 118327-88-1P 118327-89-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as bleaching agent precursor)

L88 ANSWER 24 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1988:206711 HCAPLUS

DOCUMENT NUMBER: 108:206711

TITLE: Method and compositions for the bleaching of laundry
using a peroxide compound

PATENT ASSIGNEE(S): Atochem S. A., Neth.

SOURCE: Neth. Appl., 10 pp.

CODEN: NAXXAN

DOCUMENT TYPE: Patent

LANGUAGE: Dutch

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 8701158	A	19871201	NL 1987-1158	19870514
FR 2598727	A1	19871120	FR 1986-7150	19860515
FR 2598727	B1	19900202		
US 4810408	A	19890307	US 1987-49130	19870512
DE 3716101	A1	19871217	DE 1987-3716101	19870514
JP 62299562	A2	19871226	JP 1987-118087	19870514
JP 05077788	B4	19931027		
ES 2005227	A6	19890301	ES 1987-1442	19870514
CH 678379	A3	19910913	CH 1987-1861	19870514
CH 678379	B	19920313		
CA 1296492	A1	19920303	CA 1987-537104	19870514
			FR 1986-7150	19860515

PRIORITY APPLN. INFO.:

AB The title method is carried out at <70.degree. in <30 min in a bath at pH 10.5-12.5 in the presence of Ca or Ba at concns. of 10-3-10-2 g-atom/L, and in the presence of an amt. of a sequestrant for alk. earth ions that is equal to or larger than that needed for sequestration of the Ca or Ba ions. The Ca or Ba is introduced in the form of the oxide, hydroxide or salt, thus having an anion that is inert to H2O2, and this is accompanied by an amt. of NaOH sufficient for formation of the hydroxide. This method realizes very high bleaching effects while avoiding disadvantages (cost, complexity) of prior art methods. Empa detergent (contg. 14 wt.% surfactant, 30.4 wt.% polyphosphate sequestrant, and the balance Na pyrophosphate, Na3PO4, other Na salts, and bluing agents, mixed compds., and 18.9 wt.% water) was used to wash wine-stained fabrics at liq./fabric ratio 100:1 and at 80, 60, and 40.degree. for 15 min. At a wash liq. temp. of 60.degree. and concns. of detergent 6.8 g/L, Na perborate 1 .times. 10-2, NaOH 1 .times. 10-2, and BaCl2 5 .times. 10-3 mol/L, the degree of whiteness was 78, vs. 64.5 for washing liq. contg. only detergent.

IT 11138-47-9, Sodium perborate

RL: USES (Uses)

(bleaching agent, detergents contg., for high degree of whiteness)

RN 11138-47-9 HCAPLUS

CN Perboric acid, sodium salt (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

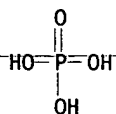
IT 7601-54-9

RL: USES (Uses)

(detergents, contg. sequestrant and hydroxides of barium and calcium, for high bleaching degree)

RN 7601-54-9 HCAPLUS

CN Phosphoric acid, trisodium salt (8CI, 9CI) (CA INDEX NAME)



●3 Na

- IC ICM D06L003-02
ICS C11D007-02
- CC 46-5 (Surface Active Agents and Detergents)
- ST peroxide laundry detergent barium calcium sequestrant; bleaching laundry sodium perborate detergent
- IT Sequestering agents
(polyaminepolycarboxylic acids, laundry detergents contg. calcium and barium salts and, for high degree of whiteness)
- IT Bleaching agents
(sodium perborate, detergents contg. barium and calcium ions and sequestrants and, for high whiteness degree)
- IT Polyphosphoric acids
RL: USES (Uses)
(alkali metal salts, detergents, contg. sequestrant and barium and calcium salts, for high degree of whiteness)
- IT Detergents
(laundry, contg. alkali and barium or calcium salt and sequestrants, bleaching by)
- IT Carboxylic acids, uses and miscellaneous
RL: USES (Uses)
(poly-, polyamino, sequestrants, laundry detergents contg. calcium and barium ions and, for high degree of whiteness)
- IT 11138-47-9, Sodium perborate
RL: USES (Uses)
(bleaching agent, detergents contg., for high degree of whiteness)
- IT 7601-54-9 7722-88-5 7758-29-4, Sodium tripolyphosphate
RL: USES (Uses)
(detergents, contg. sequestrant and hydroxides of barium and calcium, for high bleaching degree)
- IT 1305-62-0, uses and miscellaneous 17194-00-2
RL: TEM (Technical or engineered material use); USES (Uses)
(laundry detergents contg., phosphate-based, with high bleaching degree)
- IT 140-01-2, Pentasodium diethylenetriaminepentaacetic acid 5064-31-3, Nitrilotriacetic acid trisodium salt
RL: USES (Uses)
(phosphate based detergents contg. barium and calcium ions, for high whiteness degree)
- IT 1310-73-2, uses and miscellaneous
RL: USES (Uses)
(phosphate detergents contg. barium and calcium ions and sequestrant and, for high degree of whiteness)
- IT 1305-78-8, uses and miscellaneous 10043-52-4, uses and miscellaneous 10361-37-2, uses and miscellaneous
RL: USES (Uses)
(phosphate detergents contg. perborate and sequestrant and, for high whiteness degree)

L88 ANSWER 25 OF 25 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1978:535896 HCAPLUS

DOCUMENT NUMBER: 89:135896

TITLE: Storage-stable mixture containing an aromatic acyloxycarboxylic acid and giving an aqueous solution with high antimicrobial action

INVENTOR(S): Eggensperger, Heinz; Beilfuss, Wolfgang; Nolte, Helmut; Weigand, Norbert